

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--|---|---------------------------------|--|
| Process 1 : CONTROL EQUIPMENT | | | | | |
| SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 56-3, VENTING RULE 219 EXEMPT AUTOMOTIVE AIRBAG SENSOR RESEARCH LAB EQUIPMENT A/N: 412445 | C2 | | | PM: (9) [RULE 404,2-7-1986] | B27.4, C8.6, C8.9, D90.1, E158.1, E159.1, K67.3 |
| SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 55-4 A/N: | C4 | D38 D590 D591 D592 | | PM: (9) [RULE 404,2-7-1986] | C8.2, C8.9, D90.1, E158.1, E159.1, K67.3 |
| SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 78-4, WIDTH: 8FT, LENGTH: 6FT 3IN, DEPTH: 7FT, WITH A 4FT PACKING DEPTH, A 30-HP EXHAUST FAN AND THREE 2-HP RECIRCULATION PUMPS A/N: | C6 | E419 D420 E421 E422 E423 E424 D425 D427 D428 D429 D430 D431 D432 D433 D434 D435 D438 D439 D440 D441 D442 E479 D501 D502 D503 D505 E506 D525 D573 | | PM: (9) [RULE 404,2-7-1986] | C8.3, C8.9, D90.1, E158.1, E159.1, K67.3 |
| CONDENSER, REFRIGERATED A/N: 412373 | C10 | D111 | | | |
| SCRUBBER, AMERICAN AIR FILTER, WITH TWO MIST ELIMINATOR SECTIONS, WIDTH: 3 FT 6 IN; HEIGHT: 4 FT 7 IN; LENGTH: 1 FT 2 IN A/N: 416730 | C13 | C14 D198 E488 E489 E490 E491 E492 E493 E494 | | PM: (9) [RULE 404,2-7-1986] | C8.4, C8.9, D90.1, K67.3 |

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(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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| Process 1 : CONTROL EQUIPMENT | | | | | |
| FILTER, CARBON TYPE, CAMBRIDGE FILTER CORP., MODEL STM 20-20, WIDTH: 2 FT 2 IN; HEIGHT: 2 FT 3 IN; LENGTH: 5 FT A/N: 416730 | C14 | C13 | | | E149.2 |
| ADSORBER, W/ A 30 LB ACTIVATED CARBON BASKET, EMERGENCY VENTING RULE 219 EXEMPT FLUORINE STORAGE AND FEED SYSTEM EQUIPMENT, HEIGHT: 5 FT 6 IN; DIAMETER: 8 IN A/N: 412394 | C15 | | | | E149.1 |
| FILTER, W/ 55 LBS OF CARBON, RESONETICS, MODEL VAPURE, WIDTH: 2 FT 2 IN; HEIGHT: 3 FT 4 IN; LENGTH: 2 FT 2 IN A/N: 412400 | C16 | D120 | | | E149.3 |
| SCRUBBER, FS42, HARRINGTON, WITH A MIST ELIMINATOR SECTION A/N: 441123 | C159 | D55 D56 D57 D59 D62 D63 D64 D68 D70 D71 D73 D179 C308 D461 D463 | | PM: (9) [RULE 404,2-7-1986] | C8.2, C8.9, D90.1, E158.1, E159.1, K67.3 |
| SCRUBBER, FS21, HARRINGTON, WITH A MIST ELIMINATOR SECTION A/N: 445601 | C160 | D183 D189 D211 D371 D373 D374 D375 D378 D382 D386 D388 D390 D391 D394 D395 D403 D404 | | PM: (9) [RULE 404,2-7-1986] | C8.3, C8.9, D90.1, E158.1, E159.1, K67.3 |

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| Process 1 : CONTROL EQUIPMENT | | | | | |
| | | D478 D528 D539 D574 | | | |
| SCRUBBER, FS-41, HARRINGTON, MODEL NO. HPH 78- FB, MIST ELIMINATOR, A 15 H.P. EXHAUST FAN, 9 FT 8 IN W. X 15 FT L. X 10 FT 1 IN H., WITH THREE 3-HP WATER CIRCULATION PUMP A/N: 445586 | C161 | D94 D96 D97 D98 D99 D100 D101 E280 E281 E282 E283 E284 E285 E286 D300 D306 D475 D510 D511 D512 D513 D514 D515 D516 D517 D518 D519 D520 D521 D522 D523 D524 | | PM: (9) [RULE 404,2-7-1986] | C8.5, C8.9, D90.1, E158.1, E159.1, K67.3 |
| SCRUBBER, AMERICAN AIR FILTER, WITH ONE REACTION PAD AND TWO MIST ELIMINATOR SECTIONS, WIDTH: 3 FT 6 IN; HEIGHT: 4 FT 7 IN; LENGTH: 1 FT 2 IN A/N: 412404 | C162 | D198 | | PM: (9) [RULE 404,2-7-1986] | C8.10, C8.11, E71.1 |
| SCRUBBER, PACKED BED, HARRINGTON, HPH 66-4, WIDTH: 7 FT 3 IN; HEIGHT: 8 FT 2 IN; LENGTH: 10 FT 5 IN; WITH A 4 FT PACKING DEPTH, A20-HP EXHAUST FAN, AND THREE 2-HP CIRCULATION PUMPS A/N: | C232 | D349 D372 D383 D397 D398 D406 D407 D447 D477 D507 D508 D509 D552 D584 | | PM: (9) [RULE 404,2-7-1986] | C8.1, C8.9, D90.1, E158.1, E159.1, K67.3 |

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(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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| Process 1 : CONTROL EQUIPMENT | | | | | |
| SCRUBBER, PACKED BED, HARRINGTON, HPH 78-4 A/N: | C233 | D182 D210 D243 D244 D245 D255 D348 D450 D451 D551 | | PM: (9) [RULE 404,2-7-1986] | C8.3, C8.9, D90.1, E158.1, K67.3 |
| OXIDIZER, HOT BED, NATURAL GAS, 1.5 MMBTU/HR A/N: 476326 | C332 | D482 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | D29.2, E193.1, K40.1 |
| OXIDIZER, THERMAL, NO. 4, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N: | C364 | D346 D347 D350 D352 D353 D354 D355 D357 D358 D359 D361 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | A72.1, D29.2, E193.1, K40.1 |

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(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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|--|--------|---|---|--|---|
| Process 1 : CONTROL EQUIPMENT | | | | | |
| OXIDIZER, HOT BED, NO. 1, ALLIANCE SYSTEMS, MODEL NO. 308-RTO,, NATURAL GAS, THREE ZONES, 8 FT W. X 30 FT 3 IN L. X 9 FT 1 IN H., 1.5 MMBTU/HR A/N: 445594 | C455 | D79 D80 D81 D154 D173 D174 D178 D276 D277 D278 D279 D289 D335 D338 D411 D412 D413 D414 D415 D416 D417 D474 D476 D550 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | A72.1, A72.2, D28.7, D29.2, E193.1, K40.1 |
| OXIDIZER, THERMAL, NO. 2, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N: | C460 | D157 D301 D481 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | A72.1, D29.2, E193.1, K40.1 |
| SCRUBBER, PACKED BED, AAF COLAG, MODEL NO. 21, WITH A SINGLE REACTION PAD, 2000 CFM EXHAUST, VENTING GAS CABINET W/ NITROGEN TETROXIDE A/N: 412356 | C467 | | | PM: (9) [RULE 404,2-7-1986] | C8.12, C8.13, D90.2, E158.1, K67.3 |

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(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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| Process 1 : CONTROL EQUIPMENT | | | | | |
| OXIDIZER, HOT BED, NO. 3, GRACE TEC SYSTEMS, MODEL NO. ENTERPRISE IIL-060, NATURAL GAS, TWO ZONES, 8 FT W. X 18 FT L. X 10 FT H., 1.5 MMBTU/HR A/N: | C305 | D76 D77 D78 D82 D274 D299 D303 D304 D333 D337 D498 D549 D571 D572 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | A72.1, A72.3, D29.2, E193.1, K40.1 |
| SCRUBBER, HARRINGTON, PACKED BED, MODEL ECH 67-3TPS A/N: 445582 | C529 | D530 D531 D532 D533 D534 D535 D536 D538 D540 D541 D542 D543 D544 D545 D546 D547 | | PM: (9) [RULE 404,2-7-1986] | C8.3, C8.9, D90.1, E158.1, E159.1, K67.3 |
| Process 2 : EXTERNAL COMBUSTION | | | | | |
| BOILER, NO. 543, NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 5 MMBTU/HR A/N: 412380 | D19 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV NATURAL GAS (5) [RULE 1146,11-17-2000] ; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | D111.1, D332.2 |

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| Process 2 : EXTERNAL COMBUSTION | | | | | |
| BURNER, NATURAL GAS, POWER FLAME LO-NOX, WITH LOW NOX BURNER, 5 MMBTU/HR | | | | | |
| BOILER, NATURAL GAS, WITH AJAX BURNERS, 2.75 MMBTU/HR A/N: 412407 | D21 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV NATURAL GAS (5) [RULE 1146.1,5-13-1994] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | D332.1 |
| BOILER, NATURAL GAS, WITH POWERFLAME BURNER, WITH FLUE GAS RECIRCULATION, 2.5 MMBTU/HR WITH A/N: 412583 BURNER, NATURAL GAS, POWER FLAME LO-NOX, MODEL CR2-G-20A, 2.5 MMBTU/HR | D22 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV NATURAL GAS (5) [RULE 1146.1,5-13-1994] ; NOX: 38.46 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | D332.1 |

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| Process 2 : EXTERNAL COMBUSTION | | | | | |
| BOILER, NO. 638, NATURAL GAS, AJAX, MODEL SGXFD-5000, WITH FLUE GAS RECIRCULATION, 4.718 MMBTU/HR WITH A/N: 412431 BURNER, NATURAL GAS, POWER FLAME LO-NOX, MODEL CR3-G-25, 4.718 MMBTU/HR | D24 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV NATURAL GAS (5) [RULE 1146.1,5-13-1994] ; NOX: 38.46 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | D332.1 |
| BOILER, NATURAL GAS, CLEAVER BROOKS, MODEL FLX-450, WITH LOW NOX BURNER, 4.5 MMBTU/HR WITH A/N: 412435 BURNER, NATURAL GAS, ALZETA, MODEL CSB11-1SO-20, WITH LOW NOX BURNER, 4.5 MMBTU/HR | D314 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV NATURAL GAS (5) [RULE 1146.1,5-13-1994] ; NOX: 20 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] NOX: 20 PPMV NATURAL GAS (3) [RULE 2012,5-6-2005] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | D28.1, D332.1, K40.2 |

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| Process 2 : EXTERNAL COMBUSTION | | | | | |
| BURNER, NATURAL GAS, ALZETA, MODEL CSB50, 4.5 MMBRU/HR, WITH LOW NOX BURNER | | | | NOX: 12 PPMV NATURAL GAS (3) [RULE 2012,5-6-2005] ; NOX: 12 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] ; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409,8-7-1981] | |
| BOILER, NATURAL GAS, PARKER, MODEL T2970 LR, WITH LOW NOX BURNER, 2.97 MMBTU/HR WITH A/N: 412414 | D457 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; CO: 100 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT,5-10-1996] ; CO: 400 PPMV NATURAL GAS (5) [RULE 1146.1,5-13-1994] NOX: 12 PPMV NATURAL GAS (3) [RULE 2012,5-6-2005] ; NOX: 12 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | D182.1, D332.3 |
| BURNER, NATURAL GAS, PARKER, MODEL PREMIX METAL FIBER, WITH LOW NOX BURNER, 2.97 MMBTU/HR | | | | | |

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| Process 3 : INTERNAL COMBUSTION | | | | | |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL KTA19-G2, WITH AFTERCOOLER, TURBOCHARGER, 600 HP A/N: 414513 | D27 | | NOX: PROCESS UNIT** | NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] | B163.1, C1.2, C1.7, H23.9 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL NT-855-G, WITH TURBOCHARGER, 355 HP A/N: 412586 | D30 | | NOX: PROCESS UNIT** | NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] | C1.9, D135.1, H23.9, K67.4 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL NT-855-G, WITH TURBOCHARGER, INTAKE AIR COOLER, 425 HP A/N: 412584 | D31 | | NOX: PROCESS UNIT** | NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] | C1.9, D135.1, H23.9, K67.4 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL KTA 1150-G2, WITH TURBOCHARGER, INTAKE AIR COOLER, 600 HP A/N: 423923 | D32 | | NOX: PROCESS UNIT** | NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] | B163.1, C1.2, C1.7, H23.9 |
| Process 4 : DEGREASERS | | | | | P13.2 |
| DEGREASER, VAPOR, BARON-BLAKESLEE, MODEL MLR-120XLE, WIDTH: 4 FT; HEIGHT: 2 FT 3 IN; LENGTH: 4 FT A/N: 445615 | D290 | | | | B27.1, B59.1, C1.35, D322.2, H339.1, K48.3 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|--|
| Process 4 : DEGREASERS | | | | | P13.2 |
| DEGREASER, VAPOR, BARON-BLAKESLEE, MODEL MLR-120XLE, WIDTH: 4 FT; HEIGHT: 2 FT 3 IN; LENGTH: 4 FT A/N: 412384 | D291 | | | | B27.1, B59.1, C1.35, D322.2, H339.1, K48.3 |
| DEGREASER, VAPOR, WITH CONDENSER, BARON-BLAKESLEE, MODEL 37-14-21-VLE, WIDTH: 1 FT 6 IN; LENGTH: 3 FT 5 IN; HEIGHT: 4 FT 10 IN; 3 KW A/N: 445616 | D309 | | | | B27.1, B59.21, D322.2, H23.7, H339.1 |
| DEGREASER, VAPOR, BARON-BLAKESLEE, MODEL 37-14-21-VLE, WITH CONDENSER, WIDTH: 1 FT 6 IN; LENGTH: 3 FT 5 IN; HEIGHT: 4 FT 10 IN; 3 KW A/N: 412385 | D312 | | | | B27.1, B59.21, D322.2, H23.7, H339.1 |
| DEGREASER, HEATED, BARON-BLAKESLEE, CFC-113, MODEL MLR-120LE, WITH A REFRIGERATED PRIMARY CONDENSER AND FREEBOARD CHILLER, WITH CONDENSER, WIDTH: 1 FT; HEIGHT: 3 FT 9 IN; LENGTH: 1 FT 8 IN A/N: 412390 | D313 | | | | B27.5, B59.1, D322.2, H23.7, H339.1, K48.7 |

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(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|--|--------|--------------|---|---------------------------------|-------------------------------|
| Process 4 : DEGREASERS | | | | | P13.2 |
| DEGREASER, AIRLESS, CLEANING CHAMBER: WIDTH:2FT 9IN; DEPTH: 1FT 6IN; HEIGHT: 3FT; ULTRASONIC 18-KW, TIYODA-SERAC, MODEL YEV-9240KZ, WITH A CHILL WATER EXTERNAL COOLING SYSTEM, WIDTH: 5 FT 11 IN; HEIGHT: 7 FT 7 IN; LENGTH: 8 FT WITH A/N: 445015 CARBON ADSORBER, US FILTER, MODEL VSC200, DIA: 2FT 11IN; HEIGHT: 2FT 11IN, 200 LBS ACTIVATED CARBON | D577 | | | | B59.55, B59.56, E149.4, H23.3 |
| DEGREASER, AIRLESS, CLEANING CHAMBER: WIDTH:2FT 9IN; DEPTH: 1FT 6IN; HEIGHT: 3FT; ULTRASONIC 18-KW, TIYODA-SERAC, MODEL YEV-9240KZ, WITH A CHILL WATER EXTERNAL COOLING SYSTEM, WIDTH: 5 FT 11 IN; HEIGHT: 7 FT 7 IN; LENGTH: 8 FT WITH A/N: 445016 CARBON ADSORBER, US FILTER, MODEL VSC200, DIA: 2FT 11IN; HEIGHT: 2FT 11IN, 200 LBS ACTIVATED CARBON | D579 | | | | B59.55, B59.56, E149.4, H23.3 |
| Process 5 : ROCKET THRUSTER TEST FACILITY | | | | | |
| TEST CELL, ENGINE, ROCKET THRUSTER A/N: 412403 | D198 | C13 C162 | | PM: (9) [RULE 404,2-7-1986] | B59.3, C1.4, C1.14, D323.1 |

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(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|--------|--------------|---|--|--|
| Process 6 : SPRAY BOOTHS | | | | | |
| SPRAY COATING OPERATION, BINKS, WITH SPRAY BOOTH A/N: 412381 | C151 | | | PM: (9) [RULE 404,2-7-1986] ; VOC: (9) [RULE 1107,11-9- 2001;RULE 1107,1-6-2006;RULE 1124,9-21-2001;RULE 1171,11-7- 2003 RULE 1171,7-14-2006] | C6.1, D322.1, E175.1, H23.4, K67.1 |
| Process 7 : STORAGE TANKS | | | | | |
| STORAGE TANK, TANK NO. P-167, 3000 GALS A/N: 412463 | D148 | | | | C1.28, E71.2 |
| STORAGE TANK, TANK NO. P-166, 3000 GALS A/N: 412464 | D149 | | | | C1.28, E71.2 |
| STORAGE TANK, TANK NO. P-165, WITH A PRESSURE RELIEF VALVE, WASTE SOLVENT (ISOPROPYL ALCOHOL, METHANOL, ACETONE), 2000 GALS A/N: 475713 | D150 | | | | C1.54, E193.2 |
| STORAGE TANK, ACIDS, AMMONIA, 7 FT DIA. X 7 FT H., 2000 GALS A/N: 412371 | D459 | | | | C1.27 |
| Process 8 : DSV LAB | | | | | P13.1 |
| System 1 : Photolithographic Processes | | | | | |
| BENCH, PHOTORESIST COATER, HEADWAY, 2FT W. X 3 FT L. X 3 FT 3 IN H., WITH ONE SPINNER A/N: 432970 | D303 | C305 | | | |

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(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|--|--------|--------------|---|---------------------------------|------------------------|
| Process 8 : DSV LAB | | | | | P13.1 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, TECHNIC ETCHER, MODEL PE II-A, HEIGHT: 6FT 6IN; LENGTH: 3FT 5IN; WIDTH: 3FT 5IN, 65-KVA A/N: INACTIVE | D427 | C6 | | | B59.12 |
| PLASMA ETCHER, TECHNIC ETCHER, MODEL PE II-A, LENGTH 3FT 5IN; WIDTH 3FT 5IN; HEIGHT 6FT 6IN; 65-KVA A/N: INACTIVE | D505 | C6 | | | B59.39 |
| System 3 : Wet Chemical Processing | | | | | |
| BENCH, ACID SINK, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 422664 | D420 | C6 | | | B59.41 |
| System 4 : Solvent Cleaning | | | | | |
| BENCH, SOLVENT, WET BENCH, DEXON, 4 FT W. X 4 FT L. X 5 FT H., TAIL END LAB, 2 KW ELECTRICALLY HEATED A/N: 441113 | D289 | C455 | | | B59.25, C1.45, C1.52 |
| BENCH, SOLVENT, DEXON MFG, 4 FT W. X 6 FT L. X 5 FT H., WITH FOUR SOLVENT SINKS, ONE DI RINSE SINK AND ONE WASTE SOLVENT SINK A/N: 441113 | D304 | C305 | | | B59.18, E128.1, E129.1 |

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(7) Denotes NSR applicability limit
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(2)(2A)(2B) Denotes RECLAIM emission rate
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

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| Process 8 : DSV LAB | | | | | P13.1 |
| DRYER, IPA, AIO MICROSERVICE, MODEL NO. SF-600, 2FT 6IN W X 3FT 6IN L X 6FT 1IN H A/N: 441113 | D549 | C305 | | | B59.25, C1.45, C1.52 |
| Process 9 : BPL LAB | | | | | P13.1 |
| System 1 : Photolithographic Processes | | | | | |
| BENCH, PHOTORESIST COATER NO. 1 A/N: | D411 | C455 | | | B59.14, C1.24 |
| BENCH, PHOTORESIST COATER NO. 2 A/N: | D412 | C455 | | | B59.14, C1.24 |
| BENCH, TRACK DEVELOP/STRIP STATIONS #1 & 2, HEIGHT: 5FT 10IN; LENGTH: 5FT; WIDTH: 3FT 10IN A/N: | D438 | C6 | | | B59.20 |
| OVEN, NO. 1, LABLINE, MODEL 3490M A/N: | D413 | C455 | | | B59.14, C1.24 |
| OVEN, NO. 2, LABLINE, MODEL 3490M A/N: | D414 | C455 | | | B59.14, C1.24 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: | D428 | C6 | | | B59.38 |

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(2)(2A)(2B) Denotes RECLAIM emission rate
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|--|--------|--------------|---|---------------------------------|------------|
| Process 9 : BPL LAB | | | | | P13.1 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: | D429 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: | D430 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: | D431 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: | D432 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: | D433 | C6 | | | B59.38 |
| PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N: | D434 | C6 | | | B59.12 |
| PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N: | D435 | C6 | | | B59.12 |

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| Process 9 : BPL LAB | | | | | P13.1 |
| PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D501 | C6 | | | B59.38 |
| PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D502 | C6 | | | B59.38 |
| PLASMA ETCHER, CLEANER, TWO CHAMBER, TECHNIX, MODEL 800-II, LENGTH 3FT 5IN; WIDTH 3FT 5IN; HEIGHT 6FT 5IN; WITH 3 VACUUM PUMPS, 2.0-HP TOTAL A/N: | D503 | C6 | | | B59.38 |
| STORAGE CABINET, RULE 219 EXEMPT A/N: INACTIVE | D415 | C455 | | | B59.14 |
| System 3 : Wet Chemical Processing | | | | | |
| BENCH, ETCHING STATION WITH FOUR SINKS, HEIGHT: 5FT 10IN; LENGTH: 6FT; WIDTH: 7FT 10IN A/N: 474046 | D440 | C6 | | | B59.20 |
| BENCH, POLISHING STATION, WITH FOUR SINKS, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 474046 | D441 | C6 | | | B59.20, C1.29 |

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| Process 9 : BPL LAB | | | | | P13.1 |
| BENCH, WET PROCESS STATION, WITH TWO SINKS, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 474046 | D442 | C6 | | | B59.20 |
| BENCH, PLATING STATIONS #1 & 2, WITH A 10 VOLT, 3 AMPERE RECTIFIER, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 474046 | D439 | C6 | | | B59.64 |
| System 4 : Solvent Cleaning | | | | | |
| BENCH, SOLVENT, SOLID STATE EQUIP CORP, MODEL M202, 2 FT 9 IN W. X 4 FT 6 IN L. X 6 FT 5 IN H., ELECTRICALLY HEATED A/N: 451514 | D338 | C455 | | | B27.5, C1.19, H23.2 |
| BENCH, SOLVENT CLEANING STATION NO. 1, WAFER PROCESS SYSTEMS,, 3 FT W. X 4 FT L. X 6 FT 8 IN H. A/N: 451514 | D416 | C455 | | | B59.15, C1.26 |
| BENCH, SOLVENT CLEANING WET BENCH, WAFER PROCESS SYSTEMS, 3 FT W. X 8 FT L. X 6 FT 8 IN H. A/N: 451514 | D417 | C455 | | | B59.15, C1.26 |
| DRYER, IPA, FSI INTERNATIONAL, 2FT 6IN W X 3FT 6IN L X 6FT 11IN H A/N: 451514 | D550 | C455 | | | C1.26 |

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(3) Denotes RECLAIM concentration limit
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(5)(5A)(5B) Denotes command and control emission limit
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(9) See App B for Emission Limits
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| Process 10 : D1 EAST LAB | | | | | P13.1 |
| System 1 : Photolithographic Processes | | | | | |
| BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: | D76 | C305 | | | |
| BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: | D77 | C305 | | | |
| BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: | D78 | C305 | | | |
| BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.4, 3 FT W. X 5 FT L. X 3 FT H., ELECTRICALLY HEATED A/N: | D154 | C455 | | | |
| BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.3, MODEL NO. SSTC 621270, 18 KVA ELECTRICALLY HEATED, 6 FT 2 IN W. X 3 FT L. X 5 FT 10 IN H, WITH ONE SPINNER A/N: | D274 | C305 | | | |

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(2)(2A)(2B) Denotes RECLAIM emission rate
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|---|--------|--------------|---|---------------------------------|---------------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.1, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: | D299 | C305 | | | |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.2, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: | D300 | C161 | | | B59.4 |
| BENCH, PHOTORESIST STRIPPER, SEMITool NO.7, MODEL NO. EQP222SR, 16.2 KVA ELECTRICALLY HEATED, 4 FT 6 IN W. X 4 FT L. X 5 FT 6 IN H. A/N: | D333 | C305 | | | B27.4, C1.15 |
| BENCH, PHOTORESIST STRIPPER, SEMITool NO. 8, MODEL NO. SSTC401270, 3 FT 3 IN W X 5 FT 5 IN L X 5 FT 7 IN H., 7.2 KW ELECTRICALLY HEATED A/N: | D335 | C455 | | | B27.4, C1.17 |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.4, MODEL SCORPIO 839, 4 FT 4 IN W. X 4 FT 3 IN L. X 5 FT 11 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: | D337 | C305 | | | B27.5, C1.18, H23.2 |

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| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.6, MODEL NO. EQ22PR, 9.36 KVA ELECTRICALLY HEATED, 4 FT W. X 4 FT 8 IN L. X 5 FT 5 IN H. A/N: | D520 | C161 | | | B59.4, B59.43 |
| BENCH, PHOTORESIST DEVELOPER TRACK, SILICON VALLEY GROUP, MODEL NO. SVG-8632 CTD, 5 FT L. X 3 FT W X 2 FT 8 IN H. A/N: | D521 | C161 | | | B59.4, B59.43 |
| OVEN, PHOTORESIST BAKE, LABLINE MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: | D79 | C455 | | | |
| OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: | D80 | C455 | | | |
| OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: | D81 | C455 | | | |
| OVEN, TRW NO. 1, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: | D276 | C455 | | | |

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(2)(2A)(2B) Denotes RECLAIM emission rate
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| OVEN, TRW NO. 2, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: | D277 | C455 | | | |
| OVEN, TRW NO. 3, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: | D278 | C455 | | | |
| OVEN, TRW NO. 7, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: | D279 | C455 | | | |
| OVEN, VAPOR PRIME, YEILD ENGINEERING, MODEL NO. YES-6, 1 FT 9 IN W. X 2 FT 11 IN L. X 1 FT 9 IN H., ELECTRICALLY HEATED A/N: | D82 | C305 | | | |
| BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N: | D571 | C305 | | | B59.53, C1.51 |
| BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N: | D572 | C305 | | | B59.53, C1.51 |
| OVEN, VAPOR PRIME, YIELD ENGINEERING SERVICES, MODEL NO. 310TA A/N: | D573 | C6 | | | B59.53 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|-------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, PLASMATHERM WAFER BATCH 730 A/N: 441119 | D96 | C161 | | | |
| PLASMA ETCHER, DEPOSITION/ETCHER, PLASMATHERM, MODEL DUAL 790 A/N: 441119 | D97 | C161 | | | |
| PLASMA ETCHER, PLASMA THERM, MODEL NO. SL720 A/N: 441119 | D113 | | | | |
| DEPOSITION REACTOR, CHEMICAL VAPOR DEPOSITION, LOCATED IN BUILDING D1 GAAS PILOT LINE, PECVD TYPE, ELECTROTECH, MODEL DELTA 201, WITH THREE VACUUM PUMPS A/N: 441119 | D306 | C161 | | | C1.6, K48.4 |
| PLASMA ETCHER, PLASMATHERM, BACKSIDE VIA ETCH A/N: 441119 | D510 | C161 | | | B59.40 |
| PLASMA ETCHER, MATRIX #6, .MATRIX SYSTEM ONE STRIPPER, MODEL NO. 106 A/N: 441119 | D511 | C161 | | | B59.40 |
| PLASMA ETCHER, NITRIDE ETCH, VLR II, UNAXIS/PLASMATHERM, MODEL NO. VLR700 A/N: 441119 | D512 | C161 | | | B59.40 |

- * (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| PLASMA ETCHER, UNAXIS/PLASMATHERM, MODEL NO. VLR700 A/N: 441119 | D513 | C161 | | | B59.40 |
| PLASMA ETCHER, NO. 7, MATRIX SYSTEM ONE STRIPPER, MODEL NO. E2053 A/N: 441119 | D514 | C161 | | | B59.40 |
| PLASMA ETCHER, NO. 14, MATRIX SYSTEM ONE STRIPPER, MODEL NO. 105E A/N: 441119 | D516 | C161 | | | B59.40 |
| PLASMA ETCHER, NITRIDE ETCH, TEGAL, MODEL NO. 901E A/N: 441119 | D517 | C161 | | | B59.40 |
| PLASMA ETCHER, NO. 3, PLASMA THERM, MODEL NO. SLR SERIES, TWO VACUUM PUMPS A/N: 441119 | D522 | C161 | | | B59.44, C1.36 |
| BENCH, PLASMA DESCUMMER NO.1, TECHNICS, MODEL NO. PE II/IIA, 2 FT 8 IN L X 2 FT 6 IN W, X 2 FT H, 2.2 KVA, AND 0.8 H.P. VACUUM SYSTEM A/N: 441119 | D523 | C161 | | | B59.4, B59.43 |
| BENCH, PLASMA DESCUMMER NO. 2, TECHNICS, MODEL NO. PE II/IIA, 2 FT 8 IN L X 2 FT 6 IN W, X 2 FT H, 2.2 KVA AND 0.8 H.P. VACUUM SYSTEM A/N: 441119 | D524 | C161 | | | B59.4, B59.43 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| FURNACE, ELECTRIC, MRL INDUSTRIES, MODEL THERMTEC, 80 KW A/N: 441119 | D94 | C161 | | | |
| ION IMPLANTER, VARIAN, MODEL EHP 500, HEIGHT: 8FT; LENGTH: 16FT; WIDTH: 10FT 6IN A/N: 441119 | D425 | C6 | | | B59.12 |
| PLASMA ETCHER, PLASMA THERM, MODEL 790, HEIGHT: 6FT 6IN; LENGTH: 3FT 5IN; WIDTH: 3FT 5IN, 65-KVA A/N: 441119 | D426 | | | | |
| DEPOSITION REACTOR A/N: 441119 | D462 | | | | |
| System 3 : Wet Chemical Processing | | | | | |
| BENCH, ACID / SOLVENT, ACID / CAUSTIC, DEXON, MODEL NO. AG0129A A/N: 445612 | D98 | C161 | | | |
| BENCH, ACID / SOLVENT, DEXON, MODEL NO. AG0127 A/N: 445612 | D99 | C161 | | | |
| BENCH, ACID / SOLVENT, DEXON, MODEL NO. AG0084 A/N: 445612 | D100 | C161 | | | |
| BENCH, DEXON, MODEL NO. AG0130 A/N: 445612 | D101 | C161 | | | |

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(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, ACID WET, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-5-FA-PVC-C, 5FT 5IN L X 4FT 11IN W X 5FT 10IN H A/N: 445612 | D475 | C161 | | | B59.26 |
| BENCH, TI/AU ETCH, WAFER PROCESS SYSTEMS, MODEL NO. SQFFH-800-POLY A/N: 445612 | D515 | C161 | | | B59.40 |
| BENCH, ACID SINK, WAFER PROCESS SYSTEMS, MODEL NO. SLFFH-400-POLY, 4FT A/N: 445612 | D518 | C161 | | | B59.40 |
| BENCH, ACID SINK, WALL MOUNTED UNIT, 6FT A/N: 445612 | D519 | C161 | | | B59.40 |
| BENCH, TRACK DEVELOPER, C & D SEMICONDUCTOR SERVICES, MODEL NO. 8800 SERIES, 4 FT 10 IN, L X 4 FT W X 3 FT 8 IN H A/N: 445612 | D525 | C6 | | | B59.4, B59.43 |
| System 4 : Solvent Cleaning | | | | | |
| BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N: | D474 | C455 | | | B59.47, C1.44 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N: | D476 | C455 | | | B59.47, C1.44 |
| BENCH, PHOTORESIST DEVELOPER, CHLOROBENZENE SINK, WAFER PROCESS SYSTEMS, MODEL NO. WPS-, 400-FA-SS, 3 FT 4 IN W. X 3 FT 10 IN L. X 6 FT 4 IN H., HEATED 5.4 KVA A/N: | D498 | C305 | | | B59.34, C1.47 |
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| System 1 : Photolithographic Processes | | | | | |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.3, MODEL SCORPIO 841, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND ONE BAKING OVEN A/N: | D301 | C460 | | | |
| BENCH, PHOTORESIST COATER NO. 1, 82 IN L. X 52 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N: | D346 | C364 | | | B59.50, C1.42 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|----------------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST COATER NO. 2, 82 IN L. X 52 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N: | D347 | C364 | | | B59.50, C1.42 |
| BENCH, TRACK DEVELOP STATION NO. 1, POTASSIUM HYDROXIDE A/N: | D397 | C232 | | | B59.9 |
| BENCH, TRACK DEVELOP STATION NO. 2, POTASSIUM HYDROXIDE A/N: | D398 | C232 | | | B59.9 |
| BENCH, DEVELOPER, C&D SEMICONDUCTOR, MODEL 8800, WIDTH: 3FT 11IN, HEIGHT: 5FT 10IN, LENGTH:4FT 11IN A/N: | D477 | C232 | | | B59.4, B59.36 |
| BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800, WIDTH: 2 FT 11 IN, LENGTH: 8 FT, HEIGHT:3 FT 11 IN A/N: | D481 | C460 | | | B59.49, C1.37, C1.42 |
| OVEN, VAPOR PRIME, LENGTH:21.625 IN; WIDTH: 24.25 IN; HEIGHT: 35 IN; ELECTRICALLY HEATED, 2.2 KVA A/N: | D349 | C232 | | | B59.52, C1.46 |
| OVEN, NO. 1, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: | D350 | C364 | | | B59.5, C1.42 |

* (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|-------------------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| OVEN, NO. 3, PHOTORESIST BAKE, 21.6 IN L. 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: | D352 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 4, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: | D353 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 5, PHOTORESIST BAKE, 21.6 IN L. X 24.25 W. X 35 IN H., ELECTRICALLY HEATED A/N: | D354 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 6, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: | D355 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 1, VAPOR PRIME, 19.5 IN L. X 23.75 IN W. X 27.5 IN H., 2.2 KVA ELECTRICALLY HEATED, 2.2 KVA A/N: | D348 | C233 | | | B59.4, B59.57, C1.42 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, ETCH NO. 1, 65- KVA A/N: | D374 | C160 | | | B59.8 |
| PLASMA ETCHER, ETCH NO. 2, 65- KVA A/N: | D375 | C160 | | | B59.8 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|--|--------|--------------|---|---------------------------------|------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, CLEAN NO. 1, MATRIX, 6.0-KVA A/N: | D378 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 5, MATRIX, 6.0-KVA A/N: | D382 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 6, MATRIX, 6.0-KVA A/N: | D383 | C232 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 9, MATRIX, 6.0-KVA A/N: | D386 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 11, MATRIX, 6.0-KVA A/N: | D388 | C160 | | | B59.8 |
| PLASMA ETCHER, DEPOSITION NO. 1, PLASMA THERM INC. 65-KVA A/N: | D390 | C160 | | | B59.8 |
| PLASMA ETCHER, DEPOSITION NO. 2, PLASMA THERM INC. 65-KVA A/N: | D391 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 1, MATRIX, 21.4-KVA A/N: | D403 | C160 | | | B59.52 |
| PLASMA ETCHER, CLEAN NO. 2, MATRIX, 21.4-KVA A/N: | D404 | C160 | | | B59.52 |

- * (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
- (2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, CLEAN NO. 4, MATRIX, 21.4-KVA A/N: | D406 | C232 | | | B59.52 |
| PLASMA ETCHER, MATRIX, MODEL EHP500,, WIDTH:4FT, LENGTH: 3FT, HEIGHT: 6FT, WITH THREE VACUUM PUMPS A/N: | D450 | C233 | | | B59.13 |
| PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D507 | C232 | | | B59.52 |
| PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D508 | C232 | | | B59.52 |
| PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D509 | C232 | | | B59.52 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, DESCUMMER, BRANSON/IPC, MODEL REACTOR CENTER PM 1813, DIMENSIONS: HEIGHT: 3FT; LENGTH: 3FT; WIDTH: 3FT A/N: | D528 | C160 | | | B27.7 |
| FURNACE, PHOTORESIST COATER/DEVELOPER, THERMCO A/N: | D183 | C160 | | | |
| ION IMPLANTER, ION BEAM MILL VACUUM PUMP A/N: | D182 | C233 | | | |
| EVAPORATOR, CHA MK50 A/N: | D191 | | | | |
| DEPOSITION REACTOR, SPUTTERING NO. 1, 21.4-KVA A/N: | D407 | C232 | | | B59.52 |
| PROCESS TANK, PASS-THRU ACID UNIT A/N: | D189 | C160 | | | |
| DEPOSITION REACTOR, VAPOR PRIME, Y.E.S., LENGTH: 19.5IN; WIDTH: 23.75IN; HEIGHT: 27.5IN;, ELECTRICALLY HEATED A/N: | D552 | C232 | | | B59.52, C1.46 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D584 | C232 | | | B59.58 |
| PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: | D540 | C529 | | | B59.4, B59.45 |
| System 3 : Wet Chemical Processing | | | | | |
| BENCH, WET CHEMICAL A/N: 445571 | D210 | C233 | | | |
| BENCH, WET CHEMICAL A/N: 445571 | D211 | C160 | | | |
| BENCH, WET PROCESS STATION NO. 1, HYDROCHLORIC ACID A/N: 445571 | D371 | C160 | | | B59.11 |
| BENCH, WET PROCESS STATION NO. 2, HYDROCHLORIC ACID A/N: 445571 | D372 | C232 | | | B59.11 |
| BENCH, WET PROCESS STATION, ACID BENCH NO. 1, HF/PHOSPHORIC/PEROXIDE A/N: 445571 | D373 | C160 | | | B59.11 |
| BENCH, WET PROCESS STATION NO. 1, HYDROCHLORIC ACID A/N: 445571 | D394 | C160 | | | B59.41 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|----------------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| BENCH, WET PROCESS STATION NO. 2, HYDROCHLORIC ACID A/N: 445571 | D395 | C160 | | | B59.41 |
| BENCH, ACID ETCH, WIDTH:1FT 8IN, LENGTH: 3FT 4IN, HEIGHT: 5FT; A/N: 445571 | D447 | C232 | | | B59.4, B59.36 |
| BENCH, WET PROCESS STATION, WAFER PROCESS SYSTEMS, MODEL SLFFH-400-FA-PVC-C, HYDROCHLORIC ACID/AMMONIUM HYDROXIDE/PEROXIDE A/N: 445571 | D478 | C160 | | | B59.4, B59.11 |
| BENCH, , GOLD PLATING, WAFER PROCESS SYSTEMS,MODEL NO. SLFFH-800-PVC-C, WIDTH: 8FT;, HEIGHT: 6FT; LENGTH: 4FT: A/N: 445571 | D551 | C233 | | | B59.4, B59.39 |
| BENCH, ACID WET STATION, WAFER PROCESS SYSTEMS, MODEL SLFFH-500-FA-PVC-C A/N: 445571 | D574 | C160 | | | B59.54 |
| System 4 : Solvent Cleaning | | | | | |
| BENCH, , SOLVENT CLEANING STATION, DEXON, 2 KVA ELECTRICALLY HEATED, 2 FT 6 IN W. X 6 FT L. X 3 FT H. A/N: | D157 | C460 | | | B59.16, E54.1, K48.5 |

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(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|--|--------|--------------|---|---------------------------------|---------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| BENCH, SOLVENT CLEANING STATION, 3 FT W. X 4 FT L. X 6 FT 8 IN H. A/N: | D357 | C364 | | | B59.19, C1.41 |
| BENCH, SOLVENT CLEANING STATION, 3 FT W. X 5 FT L. X 6 FT 8 IN H. A/N: | D358 | C364 | | | B59.47, C1.41 |
| BENCH, SOLVENT CLEANING STATION, 3 FT W. X 4 FT L. X 6 FT 8 IN H. A/N: | D359 | C364 | | | B59.19, C1.41 |
| BENCH, SOLVENT CLEANING STATION, 3 FT W. X 6 FT L. X 6 FT 8 IN H. A/N: | D361 | C364 | | | B59.47, C1.41 |
| BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEMS, 2-KVA ELECTRICALLY HEATED A/N: | D482 | C332 | | | B59.51, C1.43 |
| Process 12 : PHOTONICS LAB | | | | | P13.1 |
| System 1 : Photolithographic Processes | | | | | |
| BENCH, PHOTORESIST STRIPPER, SOLITECH A/N: 412416 | D173 | C455 | | | B59.33, C1.33 |
| BENCH, PHOTORESIST STRIPPER, SOLITECH A/N: 412416 | D174 | C455 | | | B59.33, C1.33 |

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(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Process 12 : PHOTONICS LAB | | | | | P13.1 |
| BENCH, PHOTORESIST DEVELOPER, PHOTORESIST STRIPPER, WET SINK A/N: 412416 | D178 | C455 | | | B59.33, C1.33 |
| System 2 : Integrated circuit Fabrication | | | | | |
| DEPOSITION REACTOR, PLASMA ENHANCED A/N: 412441 | D64 | C159 | | | |
| PLASMA ETCHER, REACTIVE ION TYPE A/N: 412441 | D68 | C159 | | | |
| DEPOSITION REACTOR, MOCVD #3, THOMAS SWAN, MODEL EPITOR III- V, WITH HIGH EFFICIENCY PARTICULATE AIR FILTER A/N: 412437 | D307 | C308 | | | C1.25, E133.1 |
| CARBON ADSORBER, TWO PARALLEL BEDS, EACH 40 LBS CARBON A/N: 412466 | C308 | C159 D307 | | | C6.4, D12.1, E128.2, E133.1, E224.1, K48.1 |
| DEPOSITION REACTOR, SPUTTERING, NO. 1 A/N: 412441 | D62 | C159 | | | |
| DEPOSITION REACTOR, SPUTTERING, NO. 2 A/N: 412441 | D63 | C159 | | | |
| EVAPORATOR, ELECTRONIC BEAM A/N: 412441 | D71 | C159 | | | |

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(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
- (2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 12 : PHOTONICS LAB | | | | | P13.1 |
| DEPOSITION REACTOR, E-BEAM DEPOSITIONER A/N: 412441 | D463 | C159 | | | B27.3 |
| EVAPORATOR, ELECTRONIC BEAM A/N: 412441 | D70 | C159 | | | |
| BENCH, POLISHING DECK ETCHER A/N: 412441 | D73 | C159 | | | |
| System 3 : Wet Chemical Processing | | | | | |
| BENCH, ACID / CAUSTIC A/N: 412372 | D55 | C159 | | | |
| BENCH, ACID / CAUSTIC A/N: 412372 | D56 | C159 | | | |
| BENCH, ACID / CAUSTIC A/N: 412372 | D57 | C159 | | | |
| BENCH, ACID / CAUSTIC A/N: 412372 | D59 | C159 | | | |
| PROCESS TANK, PICKLING, ACID SINK A/N: 412372 | D179 | C159 | | | B59.33, C1.33 |
| BENCH, ACID / CAUSTIC A/N: 412372 | D461 | C159 | | | |

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(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|---------------|
| Process 13 : 3D LAB | | | | | P13.1 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, DESCUMMER NO. 1, PLASMATEK LABS, MODEL P2075, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: 445614 | D538 | C529 | | | B59.4, B59.45 |
| PLASMA ETCHER, DESCUMMER NO. 2, PLASMATEK LABS, MODEL P2075, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: 445614 | D539 | C160 | | | B59.4, B59.45 |
| PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: | D540 | C529 | | | B59.4, B59.45 |
| PLASMA ETCHER, NO. 2, TECHNIC, MODEL PLANAR ETCH II, WIDTH: 3FT 5IN; LENGTH: 3FT 5IN; HEIGHT: 6FT A/N: 445614 | D541 | C529 | | | B59.4, B59.45 |
| FURNACE, NO. 1, DIFFUSION, MINI BRUTE A/N: 445614 | D530 | C529 | | | B59.4, B59.45 |
| FURNACE, NO. 1, DIFFUSION, MINI BRUTE A/N: 445614 | D531 | C529 | | | B59.4, B59.45 |
| EVAPORATOR, NO. 2, METAL DEPOSITION A/N: 445614 | D532 | C529 | | | B59.4, B59.45 |

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(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

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|--|--------|--------------|---|---------------------------------|---------------|
| Process 13 : 3D LAB | | | | | P13.1 |
| EVAPORATOR, NO. 3, METAL DEPOSITION A/N: 445614 | D533 | C529 | | | B59.4, B59.45 |
| EVAPORATOR, NO. 4, METAL DEPOSITION A/N: 445614 | D534 | C529 | | | B59.4, B59.45 |
| EVAPORATOR, NO. 5, METAL DEPOSITION A/N: 445614 | D535 | C529 | | | B59.4, B59.45 |
| DEPOSITION REACTOR, SPUTTERING, SILICON OXIDE, CHROMIUM A/N: 445614 | D536 | C529 | | | B59.4, B59.45 |
| System 3 : Wet Chemical Processing | | | | | |
| BENCH, WET STATION, DEVELOPER, 6FT, UNHEATED A/N: 414505 | D542 | C529 | | | B59.4, B59.26 |
| BENCH, WET STATION, HEMT, NO. 1, 6FT, UNHEATED A/N: 414505 | D543 | C529 | | | B59.4, B59.26 |
| BENCH, WET STATION, HEMT, NO. 2, 6FT, UNHEATED A/N: 414505 | D544 | C529 | | | B59.4, B59.26 |
| BENCH, WET STATION, HBT, NO. 1, 6FT, UNHEATED A/N: 414505 | D545 | C529 | | | B59.4, B59.26 |
| BENCH, WET STATION, DEVELOPER, 4FT, UNHEATED A/N: 414505 | D547 | C529 | | | B59.4, B59.26 |

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|--|--------|--------------|---|---------------------------------|------------------------|
| Process 14 : SURFACE PREPARATION | | | | | |
| System 1 : Etching Line | | | | | |
| PROCESS TANK, ETCHING, UNHEATED, NO. TANTAL, WIDTH: 4 IN; HEIGHT: 4 IN; LENGTH: 4 IN A/N: 412396 | D38 | C4 | | | |
| BENCH, WET STATION, HBT, NO. 2, 6FT, UNHEATED A/N: | D546 | C529 | | | B59.4, B59.26 |
| System 2 : Plating | | | | | S13.1 |
| TANK, NICKEL STRIKE, NICKEL CHOLRIDE, HYDROCHLORIC ACID, HEATED MECHANICALLY MIXED, 80 DEGREES F MAX, 30 AMPERE RECTIFIER A/N: 463173 | D590 | C4 | | | |
| TANK, NICKEL PLATING, NICKEL SULFUMATE, NICKEL BROMIDE, HEATED MECHANICALLY MIXED, 90 DEGREES F MAX, 30 AMPERE RECTIFIER A/N: 463173 | D591 | C4 | | | |
| TANK, GOLD PLATING, LENGTH: 22IN; WIDTH:14IN; DEPTH:26IN A/N: 463173 | D592 | C4 | | | |
| Process 15 : MISCELLANEOUS EQUIPMENT | | | | | |
| SOLDER MACHINE, CENTECH, MODEL NO. VP-2000, ELECTRICALLY HEATED, 30 KW A/N: 412374 | D111 | C10 | | | B27.6, B59.4, H23.8 |

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 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Process 15 : MISCELLANEOUS EQUIPMENT | | | | | |
| PLASMA ETCHER, LASER EXCIMER A/N: 412401 | D120 | C16 | | | H23.8 |
| PROCESS TANK, UNHEATED, TRW CUSTOM, WET STATION/FUME HOOD, WIDTH: 3 FT; HEIGHT: 6 FT; LENGTH: 10 FT A/N: 412427 | D243 | C233 | | | B59.2, C1.48, H23.8 |
| PROCESS TANK, HEATED, SANTA CLARA, WET STATION, WIDTH: 3 FT; LENGTH: 8 FT; HEIGHT: 5 FT; 10.6 KW A/N: 412427 | D244 | C233 | | | B59.2, C1.48, H23.8 |
| PROCESS TANK, HEATED, SANTA CLARA, WET STATION, WIDTH: 3 FT; LENGTH: 8 FT; HEIGHT: 5 FT; 10.6 KW A/N: 412427 | D245 | C233 | | | B59.2, C1.48, H23.8 |
| BENCH, PHOTORESIST DEVELOPER, SEM UNIT HITACHI A/N: 412428 | D255 | C233 | | | B59.2, C1.48, H23.8 |
| PLASMA ETCHER, MATRIX, MODEL EHP500., WIDTH:4FT, LENGTH: 3FT, HEIGHT: 6FT, WITH THREE VACUUM PUMPS A/N: 412353 | D451 | C233 | | | B59.13, H23.8 |
| BENCH, PARTS CLEANING, PURE AIRE CORP., HEATED A/N: INACTIVE | D466 | | | | B59.31, B59.32, C1.31, H23.8 |

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(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Process 15 : MISCELLANEOUS EQUIPMENT | | | | | |
| PLASMA ETCHER, DESCUMMER NO. 1, MARCH INSTRUMENTS, MODEL PX250, CHAMBER DIMENSIONS: HEIGHT: 1FT 5IN; LENGTH: 2FT; WIDTH: 2FT; 2.2 KVA A/N: 424525 | D526 | | | | B27.7, H23.8 |
| PLASMA ETCHER, DESCUMMER NO. 2, MARCH INSTRUMENTS, MODEL PX250, CHAMBER DIMENSIONS: HEIGHT: 1FT 5IN; LENGTH: 2FT; WIDTH: 2FT; 2.2 KVA A/N: 424525 | D527 | | | | B27.7, H23.8 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250E, HEPA WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438111 | C554 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250E, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438113 | C555 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, WITH ONE PRE-FILTER, ONE MAIN FILTER AND ONE SAFETY CARBON FILTER A/N: 438114 | C556 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| Process 15 : MISCELLANEOUS EQUIPMENT | | | | | |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, HEPA WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438116 | C557 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, HEPA WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438117 | C558 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438118 | C559 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438119 | C560 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, HEPA WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 445588 | C561 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |

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(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|--|---------------------|
| Process 15 : MISCELLANEOUS EQUIPMENT | | | | | |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438122 | C563 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438123 | C564 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438124 | C565 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.50, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438125 | C566 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.50, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, HEPA WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 445589 | C567 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.50, D12.2, H23.7 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|--|---------------------|
| Process 15 : MISCELLANEOUS EQUIPMENT | | | | | |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438127 | C568 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.50, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438128 | C569 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.50, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438129 | C570 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.50, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250E, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 445617 | C575 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| FUME HOOD, RULE 219 EXEMPT, HEPA, PLYMOVENT, MODEL MF3000, WITH A 3.0-HP EXHAUST BLOWER A/N: 419012 | C548 | | | | C6.5, E175.2 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|--|---------------------|
| Process 15 : MISCELLANEOUS EQUIPMENT | | | | | |
| FUME HOOD, RULE 219 EXEMPT, PORTABLE, HORIZONTAL TYPE, TERRA UNIVERSAL, MODEL 1682-94A, WITH FOUR HEPA FILTER PACKS A/N: 428608 | C581 | | | | B59.4, C6.5, E175.2 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 429562 | C582 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 429563 | C583 | | | VOC: (9) [RULE 1124,9-21-2001;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | C1.49, D12.2, H23.7 |
| SOLDER MACHINE, ELECTRICALLY HEATED, 30 KW A/N: | D598 | | | | B59.67, C1.57 |
| Process 16 : RULE 219 EXEMPT EQUIP/PROCESSES W/ SPECIFIC-RULE REQUIREMENTS | | | | | |
| RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS, | E294 | | | | H23.1 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---|-----------------------|
| Process 16 : RULE 219 EXEMPT EQUIP/PROCESSES W/ SPECIFIC-RULE REQUIREMENTS | | | | | |
| RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED | E295 | | | VOC: (9) [RULE 1171,11-7-2003;RULE 1171,7-44-2006] | H23.3 |
| RULE 219 EXEMPT EQUIPMENT, SPRAY COATING ENCLOSURES, < 8 FT3 INTERNAL VOLUME | E296 | | | PM: (9) [RULE 404,2-7-1986] ; VOC: (9) [RULE 1107,11-9-2001;RULE 1107,1-6-2006;RULE 1124,9-21-2001;RULE 1171,11-7-2003 RULE 1171,7-44-2006] | H23.2 |
| RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS | E297 | | | VOC: (9) [RULE 1113,11-8-1996;RULE 1113,6-9-2006;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | K67.2 |
| RULE 219 EXEMPT EQUIPMENT, DEGREASERS, HEATED, < 1.0 FT2 | E298 | | | VOC: (9) [RULE 1171,11-7-2003;RULE 1171,7-44-2006] | D322.2, H23.3, H339.1 |
| RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS | E310 | | | VOC: (9) [RULE 1168,10-3-2003;RULE 1168,1-7-2005;RULE 1171,11-7-2003;RULE 1171,7-44-2006] | H23.2 |
| RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS | E456 | | | VOC: (9) [RULE 1171,11-7-2003;RULE 1171,7-44-2006] | |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|--|----------------------------------|
| Process 16 : RULE 219 EXEMPT EQUIP/PROCESSES W/ SPECIFIC-RULE REQUIREMENTS | | | | | |
| RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, < = 53 FT3, WITH DUST FILTER | E586 | | | PM: (9) [RULE 1140,2-1- 1980;RULE 1140,8-2-1985;RULE 404,2-7-1986;RULE 405,2-7-1986] | D322.3, D381.1, E102.1, K67.5 |
| Process 17 : MISC. RULE 219 EXEMPT EQUIP/PROCESSES | | | | | |
| STORAGE CABINET, RULE 219 EXEMPT, NO. 1 | E488 | C13 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, NO. 2 | E489 | C13 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, NO. 3 | E490 | C13 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, NO. 4 | E491 | C13 | | | |
| LASER TEST STAND, R & D OXYGEN IODINE CHEMICAL LASER | E492 | C13 | | | |
| HOLDING SECTION, FLEXI-GLASS ROOM, EMERGENCY HYDEOGEN PEROXIDE VENTILATION | E493 | C13 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, HYDRAZINE | E494 | C13 | | | |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|------------|
| Process 17 : MISC. RULE 219 EXEMPT EQUIP/PROCESSES | | | | | |
| CUTTER, WAFER DICER, HEIGHT: 5FT; LENGTH: 3FT 4IN; WIDTH 1FT 8IN INACTIVE | E419 | C6 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, HEIGHT: 3FT 9IN; LENGTH: 3FT 9IN; WIDTH: 1FT 8IN INACTIVE | E421 | C6 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, HEIGHT: 3FT 9IN; LENGTH: 3FT 9IN; WIDTH: 1FT 8IN INACTIVE | E422 | C6 | | | |
| BENCH, LAPPING, HEIGHT: 5FT 10IN; LENGTH: 6FT; WIDTH 6FT INACTIVE | E423 | C6 | | | |
| BENCH, POLISHING, HEIGHT: 5FT 10IN; LENGTH: 6FT; WIDTH 6FT INACTIVE | E424 | C6 | | | |
| CUTTER, WAFER, HEIGHT: 5FT, LENGTH: 3FT 4IN, WIDTH: 1FT 8IN INACTIVE | E479 | C6 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, SEMITool, MODEL CSC-2 INACTIVE | E280 | C161 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, SEMITool, MODEL CSC-2 INACTIVE | E281 | C161 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, SEMITool, MODEL CSC-2 INACTIVE | E282 | C161 | | | |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|------------|
| Process 17 : MISC. RULE 219 EXEMPT EQUIP/PROCESSES | | | | | |
| STORAGE CABINET, RULE 219 EXEMPT, SEMITool, MODEL CSC-2 INACTIVE | E283 | C161 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, SEMITool, MODEL CSC-2 INACTIVE | E284 | C161 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, SEMITool, MODEL CSC-2 INACTIVE | E285 | C161 | | | |
| STORAGE CABINET, RULE 219 EXEMPT, SEMITool, MODEL CSC-2 INACTIVE | E286 | C161 | | | |
| CUTTER, WAFER DICER, DISCO, MODEL DFD 641, LENGTH: 3FT; WIDTH: 1FT 8IN; HEIGHT: 5FT; INACTIVE | E506 | C6 | | | |

- * (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| C2 | 1 | 1 | 0 |
| C4 | 1 | 1 | 0 |
| C6 | 1 | 1 | 0 |
| C10 | 1 | 1 | 0 |
| C13 | 1 | 1 | 0 |
| C14 | 2 | 1 | 0 |
| C15 | 2 | 1 | 0 |
| C16 | 2 | 1 | 0 |
| D19 | 6 | 2 | 0 |
| D21 | 7 | 2 | 0 |
| D22 | 7 | 2 | 0 |
| D24 | 8 | 2 | 0 |
| D27 | 11 | 3 | 0 |
| D30 | 11 | 3 | 0 |
| D31 | 11 | 3 | 0 |
| D32 | 11 | 3 | 0 |
| D38 | 41 | 14 | 1 |
| D55 | 38 | 12 | 3 |
| D56 | 38 | 12 | 3 |
| D57 | 38 | 12 | 3 |
| D59 | 38 | 12 | 3 |
| D62 | 37 | 12 | 2 |
| D63 | 37 | 12 | 2 |
| D64 | 37 | 12 | 2 |
| D68 | 37 | 12 | 2 |
| D70 | 38 | 12 | 2 |
| D71 | 37 | 12 | 2 |
| D73 | 38 | 12 | 2 |
| D76 | 20 | 10 | 1 |
| D77 | 20 | 10 | 1 |
| D78 | 20 | 10 | 1 |
| D79 | 22 | 10 | 1 |
| D80 | 22 | 10 | 1 |
| D81 | 22 | 10 | 1 |
| D82 | 23 | 10 | 1 |
| D94 | 26 | 10 | 2 |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| D96 | 24 | 10 | 2 |
| D97 | 24 | 10 | 2 |
| D98 | 26 | 10 | 3 |
| D99 | 26 | 10 | 3 |
| D100 | 26 | 10 | 3 |
| D101 | 26 | 10 | 3 |
| D111 | 41 | 15 | 0 |
| D113 | 24 | 10 | 2 |
| D120 | 42 | 15 | 0 |
| D148 | 14 | 7 | 0 |
| D149 | 14 | 7 | 0 |
| D150 | 14 | 7 | 0 |
| C151 | 14 | 6 | 0 |
| D154 | 20 | 10 | 1 |
| D157 | 35 | 11 | 4 |
| C159 | 2 | 1 | 0 |
| C160 | 2 | 1 | 0 |
| C161 | 3 | 1 | 0 |
| C162 | 3 | 1 | 0 |
| D173 | 36 | 12 | 1 |
| D174 | 36 | 12 | 1 |
| D178 | 37 | 12 | 1 |
| D179 | 38 | 12 | 3 |
| D182 | 33 | 11 | 2 |
| D183 | 33 | 11 | 2 |
| D189 | 33 | 11 | 2 |
| D191 | 33 | 11 | 2 |
| D198 | 13 | 5 | 0 |
| D210 | 34 | 11 | 3 |
| D211 | 34 | 11 | 3 |
| C232 | 3 | 1 | 0 |
| C233 | 4 | 1 | 0 |
| D243 | 42 | 15 | 0 |
| D244 | 42 | 15 | 0 |
| D245 | 42 | 15 | 0 |
| D255 | 42 | 15 | 0 |

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SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| D274 | 20 | 10 | 1 |
| D276 | 22 | 10 | 1 |
| D277 | 23 | 10 | 1 |
| D278 | 23 | 10 | 1 |
| D279 | 23 | 10 | 1 |
| E280 | 50 | 17 | 0 |
| E281 | 50 | 17 | 0 |
| E282 | 50 | 17 | 0 |
| E283 | 51 | 17 | 0 |
| E284 | 51 | 17 | 0 |
| E285 | 51 | 17 | 0 |
| E286 | 51 | 17 | 0 |
| D289 | 15 | 8 | 4 |
| D290 | 11 | 4 | 0 |
| D291 | 12 | 4 | 0 |
| E294 | 47 | 16 | 0 |
| E295 | 48 | 16 | 0 |
| E296 | 48 | 16 | 0 |
| E297 | 48 | 16 | 0 |
| E298 | 48 | 16 | 0 |
| D299 | 21 | 10 | 1 |
| D300 | 21 | 10 | 1 |
| D301 | 28 | 11 | 1 |
| D303 | 14 | 8 | 1 |
| D304 | 15 | 8 | 4 |
| C305 | 6 | 1 | 0 |
| D306 | 24 | 10 | 2 |
| D307 | 37 | 12 | 2 |
| C308 | 37 | 12 | 2 |
| D309 | 12 | 4 | 0 |
| E310 | 48 | 16 | 0 |
| D312 | 12 | 4 | 0 |
| D313 | 12 | 4 | 0 |
| D314 | 8 | 2 | 0 |
| D321 | 9 | 2 | 0 |
| C332 | 4 | 1 | 0 |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| D333 | 21 | 10 | 1 |
| D335 | 21 | 10 | 1 |
| D337 | 21 | 10 | 1 |
| D338 | 19 | 9 | 4 |
| D346 | 28 | 11 | 1 |
| D347 | 29 | 11 | 1 |
| D348 | 30 | 11 | 1 |
| D349 | 29 | 11 | 1 |
| D350 | 29 | 11 | 1 |
| D352 | 30 | 11 | 1 |
| D353 | 30 | 11 | 1 |
| D354 | 30 | 11 | 1 |
| D355 | 30 | 11 | 1 |
| D357 | 36 | 11 | 4 |
| D358 | 36 | 11 | 4 |
| D359 | 36 | 11 | 4 |
| D361 | 36 | 11 | 4 |
| C364 | 4 | 1 | 0 |
| D365 | 9 | 2 | 0 |
| D371 | 34 | 11 | 3 |
| D372 | 34 | 11 | 3 |
| D373 | 34 | 11 | 3 |
| D374 | 30 | 11 | 2 |
| D375 | 30 | 11 | 2 |
| D378 | 31 | 11 | 2 |
| D382 | 31 | 11 | 2 |
| D383 | 31 | 11 | 2 |
| D386 | 31 | 11 | 2 |
| D388 | 31 | 11 | 2 |
| D390 | 31 | 11 | 2 |
| D391 | 31 | 11 | 2 |
| D394 | 34 | 11 | 3 |
| D395 | 35 | 11 | 3 |
| D397 | 29 | 11 | 1 |
| D398 | 29 | 11 | 1 |
| D403 | 31 | 11 | 2 |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| D404 | 31 | 11 | 2 |
| D406 | 32 | 11 | 2 |
| D407 | 33 | 11 | 2 |
| D411 | 16 | 9 | 1 |
| D412 | 16 | 9 | 1 |
| D413 | 16 | 9 | 1 |
| D414 | 16 | 9 | 1 |
| D415 | 18 | 9 | 2 |
| D416 | 19 | 9 | 4 |
| D417 | 19 | 9 | 4 |
| E419 | 50 | 17 | 0 |
| D420 | 15 | 8 | 3 |
| E421 | 50 | 17 | 0 |
| E422 | 50 | 17 | 0 |
| E423 | 50 | 17 | 0 |
| E424 | 50 | 17 | 0 |
| D425 | 26 | 10 | 2 |
| D426 | 26 | 10 | 2 |
| D427 | 15 | 8 | 2 |
| D428 | 16 | 9 | 2 |
| D429 | 17 | 9 | 2 |
| D430 | 17 | 9 | 2 |
| D431 | 17 | 9 | 2 |
| D432 | 17 | 9 | 2 |
| D433 | 17 | 9 | 2 |
| D434 | 17 | 9 | 2 |
| D435 | 17 | 9 | 2 |
| D438 | 16 | 9 | 1 |
| D439 | 19 | 9 | 3 |
| D440 | 18 | 9 | 3 |
| D441 | 18 | 9 | 3 |
| D442 | 19 | 9 | 3 |
| D447 | 35 | 11 | 3 |
| D450 | 32 | 11 | 2 |
| D451 | 42 | 15 | 0 |
| C455 | 5 | 1 | 0 |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| E456 | 48 | 16 | 0 |
| D457 | 10 | 2 | 0 |
| D459 | 14 | 7 | 0 |
| C460 | 5 | 1 | 0 |
| D461 | 38 | 12 | 3 |
| D462 | 26 | 10 | 2 |
| D463 | 38 | 12 | 2 |
| D466 | 42 | 15 | 0 |
| C467 | 5 | 1 | 0 |
| D474 | 27 | 10 | 4 |
| D475 | 27 | 10 | 3 |
| D476 | 28 | 10 | 4 |
| D477 | 29 | 11 | 1 |
| D478 | 35 | 11 | 3 |
| E479 | 50 | 17 | 0 |
| D481 | 29 | 11 | 1 |
| D482 | 36 | 11 | 4 |
| E488 | 49 | 17 | 0 |
| E489 | 49 | 17 | 0 |
| E490 | 49 | 17 | 0 |
| E491 | 49 | 17 | 0 |
| E492 | 49 | 17 | 0 |
| E493 | 49 | 17 | 0 |
| E494 | 49 | 17 | 0 |
| D498 | 28 | 10 | 4 |
| D501 | 18 | 9 | 2 |
| D502 | 18 | 9 | 2 |
| D503 | 18 | 9 | 2 |
| D505 | 15 | 8 | 2 |
| E506 | 51 | 17 | 0 |
| D507 | 32 | 11 | 2 |
| D508 | 32 | 11 | 2 |
| D509 | 32 | 11 | 2 |
| D510 | 24 | 10 | 2 |
| D511 | 24 | 10 | 2 |
| D512 | 24 | 10 | 2 |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|-------------|--|
| VOC | Less than or equal to 833 LBS IN ANY ONE MONTH |

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

- (1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).
- (2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules.
- (3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.
- (4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all equipment and operations that are subject to Rule 442.

[RULE 442, 12-15-2000]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

F2.2 The operator shall limit emissions from this facility as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|-------------|---|
| VOC | Less than or equal to 22 LBS IN ANY ONE MONTH |

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

- (1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).
- (2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules.
- (3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.
- (4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all vapor degreasers operating under the Rule 1122 exemption pursuant to Rule 1122(k)(2).

[RULE 1122, 10-1-2004]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

F2.3 The operator shall limit emissions from this facility as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|--|--|
| Single Volatile Hazardous Air Pollutant (VHAP) | Less than 10 TONS IN ANY 12-MONTH PERIOD |
| Combination of Volatile Hazardous Air Pollutants (VHAPs) | Less than 25 TONS IN ANY 12-MONTH PERIOD |

To ensure compliance with the 12-month Volatile Hazardous Air Pollutant (VHAP) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

- (1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).
- (2) Within 14 calendar days after the end of each month, the operator shall total and record VHAP emissions for the month and for the previous 12 month period from all equipment and operations covered by the 12-month emission limit(s). The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules.
- (3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VHAP-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.
- (4) The operator shall retain all purchase invoices for all VHAP-containing material used or stored at the facility, and all waste manifests for all waste VHAP-containing material removed from the facility, for five years.

[40CFR 63 Subpart BBBBB, 5-22-2003]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

District Rule 1420

[RULE 1420, 9-11-1992]

PROCESS CONDITIONS

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1164 |
| VOC | District Rule | 109 |

[RULE 109, 5-2-2003; RULE 1164, 1-13-1995]

[Processes subject to this condition : 8, 9, 10, 11, 12, 13]

P13.2 All devices under this process are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1122 |
| VOC | District Rule | 109 |

[RULE 109, 5-2-2003; RULE 1122, 10-1-2004]

[Processes subject to this condition : 4]

SYSTEM CONDITIONS

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| HAPs | District Rule | 1426 |

[RULE 1426, 5-2-2003]

[Systems subject to this condition : Process 14, System 2]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DEVICE CONDITIONS

A. Emission Limits

- A72.1 The operator shall maintain this equipment to achieve a minimum destruction efficiency of 95 percent for ROG during the normal operation of the equipment it vents.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : C305, C364, C455, C460]

- A72.2 The operator shall maintain this equipment to achieve a minimum overall control efficiency of 90 percent for ROG during the normal operation of the equipment it vents.

[RULE 1164, 1-13-1995]

[Devices subject to this condition : C455]

- A72.3 The operator shall maintain this equipment to achieve a minimum overall control efficiency of 90 percent for ROG during the normal operation of the equipment it vents.

[RULE 1164, 1-13-1995]

[Devices subject to this condition : C305]

B. Material/Fuel Type Limits

- B27.1 The operator shall not use materials containing any compounds identified in the SCAQMD Rule 1401, as amended 07-dec-1990.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D290, D291, D309, D312]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- B27.3 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 13-aug-1999.

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D463]

- B27.4 The operator shall not use materials containing any carcinogenic compounds identified in the SCAQMD Rule 1401, as amended 07-dec-1990.

For the purposes of this condition, carcinogenic compounds are those in Table I of the above mentioned rule, with an effective date of 07-dec-1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : C2, D333, D335]

- B27.5 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 12-mar-1999.

For the purposes of this condition, toxic air contaminants (TACs) are those in Table I of the above mentioned rule, with an effective date of 12-mar-1999 or earlier.

[RULE 1401, 3-12-1999]

[Devices subject to this condition : D313, D337, D338]

- B27.6 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 05/03/2002.

For the purposes of this condition, toxic air contaminants (TACs) are those in Table I of the above mentioned rule, with an effective date of 05/03/2002 or earlier.

[RULE 1401, 5-3-2002]

[Devices subject to this condition : D111]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- B27.7 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 05-02-2003.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D526, D527, D528]

- B59.1 The operator shall not use the following material(s) in this device :

carbon tetrachloride

trichloroethylene

chloroform

methylene chloride

1,1,1 trichloroethane

perchloroethylene

The purpose of this condition is to ensure that this equipment is not subject to degreaser NESHAP 40CFR63 SUBPART T requirements

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D290, D291, D313]

- B59.2 The operator shall not use the following material(s) in this device :

voc containing materials except for equipment cleaning

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D243, D244, D245, D255]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.3 The operator shall only use the following material(s) in this device :

Hydrazine

Monomethyl Hydrazine

Ethanol

Jet Fuels (JP-5, JP-8, JP-10, RP-1)

Hydrogen

Propane

Methane

Methanol

Ethylene

Ammonia

Nitrogen Tetroxide

Oxygen

Hydrogen Peroxide

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D198]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.4 The operator shall not use the following material(s) in this device :

Materials containing VOC.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D111, D300, D348, D447, D477, D478, D520, D521, D523, D524, D525, D530, D531, D532, D533, D534, D535, D536, D538, D539, D540, D541, D542, D543, D544, D545, D546, D547, D551, C581]

B59.5 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier except nitric acid and hydrofluoric acid

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D350, D352, D353, D354, D355]

B59.8 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except ammonia

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D374, D375, D378, D382, D383, D386, D388, D390, D391]

B59.9 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except hydrochloric acid

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D397, D398]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.11 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except hydrochloric, hydrofluoric acid, and ammonia

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D371, D372, D373, D478]

B59.12 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D425, D427, D434, D435]

B59.13 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 8/18/00 or earlier

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D450, D451]

B59.14 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of May 2, 2003 or earlier except methanol, isopropyl alcohol, and chlorobenzene

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D411, D412, D413, D414, D415]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.15 The operator shall not use the following material(s) in this device :

toxic air contaminants in table 1 of rule 1401 with a listing date of 8/18/2000 or earlier except isopropyl alcohol, methanol, and trichloroethylene.

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D416, D417]

B59.16 The operator shall not use the following material(s) in this device :

Materials containing any carcinogenic air contaminants identified in Rule 1401, Table 1 with an effective date of December 7, 1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D157]

B59.18 The operator shall not use the following material(s) in this device :

Materials containing any carcinogenic air contaminants identified in Rule 1401, Table 1 with an effective date of December 7, 1990 or earlier except Trichloroethylene.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D304]

B59.19 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table one of rule 1401 with a listing date of 8/13/99 or earlier except isopropyl alcohol, phenol, methanol and naphthalene

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D357, D359]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.20 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hexavalent chrome, hydrofluoric acid, nickel sulfamate, nitric acid and phosphoric acid.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D438, D440, D441, D442]

B59.21 The operator shall not use the following material(s) in this device :

methylene chloride

1,1,1 trichloroethane

chloroform

perchloroethylene

trichloroethylene

carbon tetrachloride

HCFC-141b

The purpose of this condition is to ensure that this equipment is not subject to the degreaser NESHAP 40CFR63 SUBPART T requirements.

[40CFR 63 Subpart T, 12-8-2000]

[Devices subject to this condition : D309, D312]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.23 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except xylene and propylene glycol

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D445]

B59.25 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except phenol, methanol, isopropyl alcohol and trichloroethylene.

[RULE 1401, 2-7-2003]

[Devices subject to this condition : D289, D549]

B59.26 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 2/07/03 or earlier except HCL, HF or phosphoric acid

[RULE 1401, 2-7-2003]

[Devices subject to this condition : D475, D542, D543, D544, D545, D546, D547]

B59.31 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of Feb. 2, 2003 or earlier except methanol.

[RULE 1401, 2-7-2003]

[Devices subject to this condition : D466]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.32 The operator shall only use the following material(s) in this device :

Methanol

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1401, 2-7-2003]

[Devices subject to this condition : D466]

B59.33 The operator shall not use the following material(s) in this device :

toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorobenzene, methanol and phenol

[RULE 1401, 5-3-2002]

[Devices subject to this condition : D173, D174, D178, D179]

B59.34 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except chlorobenzene, isopropyl alcohol, and methanol.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D498]

B59.36 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrochloric acid and hydrofluoric acid

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D447, D477]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.38 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D428, D429, D430, D431, D432, D433, D501, D502, D503]

B59.39 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except nickel and nickel compounds.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D505, D551]

B59.40 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine, hydrochloric acid, phosphoric acid, hydrofluoric acid, ammonia and isopropyl alcohol

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D510, D511, D512, D513, D514, D515, D516, D517, D518, D519]

B59.41 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrochloric acid, hydrofluoric acid, sulfuric acid and phosphoric acid.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D394, D395, D420]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.43 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D520, D521, D523, D524, D525]

B59.44 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine, arsenic, and isopropyl alcohol

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D522]

B59.45 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 5/02/03 or earlier except hexavalent chrome, nickel or beryllium

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D530, D531, D532, D533, D534, D535, D536, D538, D539, D540, D541]

B59.47 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except isopropyl alcohol, methanol, phenol and naphtalene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D358, D361, D474, D476]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.49 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except cresol, isopropyl alcohol, methanol, xylene, phenol and chlorobenzene.1

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

B59.50 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except nitric acid, hydrofluoric acid, cresol, xylene, isopropyl alcohol, methanol, and chlorobenzene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D346, D347]

B59.51 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except isopropyl alcohol, methanol, chlorobenzene, phenol and naphthalene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D482]

B59.52 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrofluoric acid, hydrochloric acid, ammonia, chlorine or isopropyl alcohol

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D349, D403, D404, D406, D407, D507, D508, D509, D552]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.53 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol, isopropyl alcohol and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D571, D572, D573]

B59.54 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hydrofluoric acid and phosphoric acid

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D574]

B59.55 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D577, D579]

B59.56 The operator shall not use the following material(s) in this device :

Solvents that have a Volatile Organic Compound (VOC) content greater than 15 weight percent

[RULE 1303(a)-BACT, 5-10-1996]

[Devices subject to this condition : D577, D579]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B59.57 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except nitric acid, hydrofluoric acid and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D348]

B59.58 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/4/05 or earlier except hydrofluoric acid or chlorine

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D584]

B59.64 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hexavalent chrome, hydrofluoric acid, nickel sulfamate, nitric acid, phosphoric acid, sulfuric acid, copper and copper sulfate.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D439]

B59.67 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/07/08 or earlier except Acetaldehyde, Formaldehyde, 1,4-Dioxane, Ethylene Oxide and Hydrochloric Acid

[RULE 1401, 3-7-2008]

[Devices subject to this condition : D598]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B163.1 The operator shall only use fuel oil containing the following:

a sulfur content that complies with rule 431.2

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D27, D32]

C. Throughput or Operating Parameter Limits

C1.2 The operator shall limit the maintenance testing to no more than 50 hour(s) in any one year.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D27, D32]

C1.4 The operator shall limit the material processed to no more than 960 lb(s) in any one day.

For the purpose of this condition, material processed shall be defined as hydrazine.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D198]

C1.6 The operator shall limit the material processed to no more than 3600 in any one month.

For the purpose of this condition, material processed shall be defined as the total number of wafers processed.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D306]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.7 The operator shall limit the operating time to no more than 200 hours in any one year.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

Operation beyond 50 hours per year for maintenance and testing is allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage provided that: 1) the electrical grid operator or the electric utility has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time; and 2) the engine is located in a utility service block that is subject to the rotating outage.

The operator shall maintain an engine operation log listing the date of operation, the elapsed time, in hours, and the reason for operation shall be kept and maintained on file for a minimum of five years and made available to District personnel upon request.

[RULE 1110.2, 6-3-2005; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D27, D32]

C1.9 The operator shall limit the operating time to no more than 200 hours in any one year.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 6-3-2005; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D30, D31]

C1.14 The operator shall limit the fuel usage to no more than 20 lb(s) in any one day.

For the purpose of this condition, fuel usage shall be defined as the total quantity of all materials used in this device as specified in condition no. B59.3, not including nitrogen tetroxide, oxygen, hydrogen peroxide, and hydrazine.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D198]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.15 The operator shall limit the material processed to no more than 180 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D333]

C1.17 The operator shall limit the material processed to no more than 93 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D335]

C1.18 The operator shall limit the material processed to no more than 430 lb(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D337]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.19 The operator shall limit the material processed to no more than 300 lb(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D338]

C1.24 The operator shall limit the material processed to no more than 42 gallon(s) per month.

This limit shall be based on the total combined limit for equipment D411 - D414.

For the purpose of this condition, material processed shall be defined as material with a VOC content of 9.2 lbs/gal or less.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D411, D412, D413, D414]

C1.25 The operator shall limit the material processed to no more than 30 lb(s) in any one year.

For the purpose of this condition, material processed shall be defined as Arsine gas.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1401, 7-10-1998]

[Devices subject to this condition : D307]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.26 The operator shall limit the material processed to no more than 300 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

This limit shall be based on the total combined limit for equipment D416, D417 & D550.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D416, D417, D550]

C1.27 The operator shall limit the material processed to no more than 8000 gallon(s) per year.

For the purpose of this condition, material processed shall be defined as waste materials transferred into this tank. Such waste materials shall not contain any volatile toxic air contaminants identified in Rule 1401, Table 1 with an effective date of June 15, 2001 or earlier except Ammonia, Hydrofluoric Acid, and Phosphoric Acid.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1401, 6-15-2001]

[Devices subject to this condition : D459]

C1.28 The operator shall limit the material processed to no more than 132000 gallon(s) per year.

For the purpose of this condition, material processed shall be defined as waste solvent transferred into this tank.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D148, D149]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.29 The operator shall limit the material processed to no more than 27 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as potassium dichromate added to batch.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D441]

C1.30 The operator shall limit the material processed to no more than 26 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as as material containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D445]

C1.31 The operator shall limit the coating and solvent usage to no more than 3.0 gallon(s) per day.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D466]

C1.33 The operator shall limit the material processed to no more than 15 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as material with a voc content of 9.2 lbs/gallon or less.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D173, D174, D178, D179]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.35 The operator shall limit the material processed to no more than 102 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as total quantity of volatile organic compounds(VOC) emitted from this equipment.

This limit shall be based on the total combined limit for equipment 290, D291.

To comply with this condition, the operator shall comply with the following recordkeeping requirements:.

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound emissions)..

(2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit. The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules..

(3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months..

(4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years..

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D290, D291]

C1.36 The operator shall limit the material processed to no more than 0.50 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as isopropyl alcohol.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D522]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.37 The operator shall limit the material processed to no more than 80 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as photoresist coatings (Microposit 1822 / 1813).

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

C1.41 The operator shall limit the material processed to no more than 1836 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D357, D358, D359, D361 and D482.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D357, D358, D359, D361]

C1.42 The operator shall limit the material processed to no more than 649 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D346 through D348, D350, D352 through D355 and D481.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D346, D347, D348, D350, D352, D353, D354, D355, D481]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.43 The operator shall limit the material processed to no more than 450 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D319, D320, D482 and D483.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D482]

C1.44 The operator shall limit the material processed to no more than 660 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D474 and D476.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D474, D476]

C1.45 The operator shall limit the material processed to no more than 190 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D289 and D549.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D289, D549]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.46 The operator shall limit the material processed to no more than 2.0 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC. The limit shall be based on the total combined limit for equipment D349 and D552.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D349, D552]

C1.47 The operator shall limit the material processed to no more than 325 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D498]

C1.48 The operator shall limit the material processed to no more than 45 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as clean-up solvent excluding the amount salvaged for reclamation.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D243, D244, D245, D255]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.49 The operator shall limit the operating time to no more than 1200 hour(s).

For the purpose of this condition, operating time shall be defined as the time elapsed between filter changes.

The operator shall not use this equipment unless the exhaust fan is turned on.

The operator shall not operate this equipment near open doorways, open windows, air conditioning, heating ovens or any areas where is likely to be effected by any other equipment.

The operator shall not use this equipment unless the main carbon filter door and sash door are completely closed.

The operator shall set the alarm to warn the operator when the total elapsed operating hours for the main and safety carbon filters reaches 1199 hours or less of operation.

The operator shall replace the main and safety carbon filters with a new one whenever the total elapsed operating hours from the last time the main and safety carbon filters were replaced is 1200 hours or less.

The operator shall replace the main and safety carbon filters with a new one whenever the hydrocarbon sensor detects breakthrough which is indicated as "Approaching Saturation" on the instrument panel for this equipment. The breakthrough shall be set at a TLV between 0 to 50 ppm.

The operator shall dispose of the spent carbon filters properly.

The operator shall keep a log to indicate the date pre-filter, the main and safety carbon filters are replaced. The records shall be kept for a period of at least five years and made available to District personnel upon request.

The operator shall replace the pre-filter whenever the check filter light on the panel comes on, or at least when the main carbon filters and safety filters are replaced.

The operator shall not use halogenated solvents to conduct rule 1122 operations in this equipment.

The operator shall not vent emissions from any equipment or operations that are conducted outside of this fume hood.

The operator shall not use any heated solvents/cleaners or any container that hold heated solvents/cleaners inside this fume hood.

The operator shall not heat any solvents/cleaners or heat any container that holds solvents/cleaners in this fume hood.

[RULE 1122, 10-1-2004; RULE 1124, 9-21-2001; RULE 1171, 11-7-2003; RULE 1171, 7-14-2006]

[Devices subject to this condition : C554, C555, C556, C557, C558, C559, C560, C561, C563, C564, C575,

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C582, C583]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.50 The operator shall limit the operating time to no more than 1160 hour(s).

For the purpose of this condition, operating time shall be defined as the time elapsed between filter changes.

The operator shall not use this equipment unless the exhaust fan is turned on.

The operator shall not operate this equipment near open doorways, open windows, air conditioning, heating ovens or any areas where is likely to be effected by any other equipment.

The operator shall not use this equipment unless the main carbon filter door and sash door are completely closed.

The operator shall set the alarm to warn the operator when the total elapsed operating hours for the main and safety carbon filters reaches 1159 hours or less of operation.

The operator shall replace the main and safety carbon filters with a new one whenever the total elapsed operating hours from the last time the main and safety carbon filters were replaced is 1160 hours or less.

The operator shall replace the main and safety carbon filters with a new one whenever the hydrocarbon sensor detects breakthrough which is indicated as "Approaching Saturation" on the instrument panel for this equipment. The breakthrough shall be set at a TLV between 0 to 50 ppm.

The operator shall dispose of the spent carbon filters properly.

The operator shall keep a log to indicate the date pre-filter, the main and safety carbon filters are replaced. The records shall be kept for a period of at least five years and made available to District personnel upon request.

The operator shall replace the pre-filter whenever the check filter light on the panel comes on, or at least when the main carbon filters and safety filters are replaced.

The operator shall not use halogenated solvents to conduct rule 1122 operations in this equipment.

The operator shall not vent emissions from any equipment or operations that are conducted outside of this fume hood.

The operator shall not use any heated solvents/cleaners or any container that hold heated solvents/cleaners inside this fume hood.

The operator shall not heat any solvents/cleaners or heat any container that holds solvents/cleaners in this fume hood.

[RULE 1122, 10-1-2004; RULE 1124, 9-21-2001; RULE 1171, 11-7-2003; RULE 1171, 7-14-2006]

[Devices subject to this condition : C565, C566, C567, C568, C569, C570]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C1.51 The operator shall limit the material processed to no more than 282 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D571, D572]

- C1.52 The operator shall limit the material processed to no more than 2.0 gallon(s) per day.

For the purpose of this condition, material processed shall be defined as Trichloroethylene (TCE) used.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D289, D549]

- C1.54 The operator shall limit the material processed to no more than 12000 gallon(s) per year.

For the purpose of this condition, material processed shall be defined as waste solvent transferred into this tank.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1401, 12-7-1990]

[Devices subject to this condition : D150]

- C1.57 The operator shall limit the material processed to no more than 0.5 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1401, 3-7-2008]

[Devices subject to this condition : D598]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C6.1 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 0.25 inches water column.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the exhaust filters.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C151]

- C6.4 The operator shall use this equipment in such a manner that the arsine concentration being monitored, as indicated below, does not exceed 0.05 ppm.

The operator shall install and maintain a(n) MDA gas detector or other District approved toxic gas sensor to continuously measure the Arsine concentration in the exhaust stream from the carbon adsorber.

The operator shall record the parameter being monitored once every 60 minute(s).

[RULE 1401, 7-10-1998]

[Devices subject to this condition : C308]

- C6.5 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 2.0 inches water column.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the HEPA filter(s).

[RULE 1401, 5-2-2003]

[Devices subject to this condition : C548, C581]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C8.1 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 100 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C232]

- C8.2 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 60 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C4, C159]

- C8.3 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 150 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C6, C160, C233, C529]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C8.4 The operator shall use this equipment in such a manner that the pressure being monitored, as indicated below, is not less than 10 Psig.

To comply with this condition, the operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure of the water supplied to both stages of the scrubber.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C13]

- C8.5 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 125 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the scrubbing solution supplied to the spray nozzles.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C161]

- C8.6 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 65 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C2]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C8.9 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 8 of the pH scale.

To comply with this condition, the operator shall monitor and record the pH as specified in condition number 90-1.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C2, C4, C6, C13, C159, C160, C161, C232, C233, C529]

- C8.10 The operator shall use this equipment in such a manner that the pressure being monitored, as indicated below, is not less than 5 Psig.

To comply with this condition, the operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure of the water supplied to the scrubber.

The operator shall record the parameter being monitored once every 24 hours.

This condition shall only apply if the operator chooses not to comply with condition no. C8.11.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C162]

- C8.11 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 0.22 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the water supplied to the scrubber.

The operator shall record the parameter being monitored once every 24 hours.

This condition shall only apply if the operator chooses not to comply with condition no. C8.10.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C162]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C8.12 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 0.5 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C467]

- C8.13 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 11.5 of the pH scale.

To comply with this condition, the operator shall monitor and record the pH as specified in condition number 90-2.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C467]

D. Monitoring/Testing Requirements

- D12.1 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the carbon adsorber columns.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C308]

- D12.2 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the exhaust fan.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C554, C555, C556, C557, C558, C559, C560, C561, C563, C564, C565, C566, C567, C568, C569, C570, C575, C582, C583]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted within the first 12 months after issuance of this permit and once every 5-year period with the first 5-year period ending 12-31-2004.

The test shall be conducted to demonstrate compliance with the source testing requirements of Rule 2012 for a Process Unit opting to comply with a NO_x concentration limit.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D314, D321]

D28.7 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the capture efficiency based on the mass of VOC usage in the basic equipment/process served.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted after a source test protocol has been submitted and approved by the District.

[RULE 1164, 1-13-1995; RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C455]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

| Pollutant(s) to be tested | Required Test Method(s) | Averaging Time | Test Location |
|---------------------------|--------------------------|----------------------------------|-------------------------------|
| VOC | Approved District method | District-approved averaging time | Simultaneous inlet and outlet |

The test shall be conducted at least once during the life of the permit but no later than July 9, 2010 unless otherwise approved in writing by the District.

The test shall be conducted to determine the VOC emissions using an approved District method to determine compliance with all applicable permit condition(s), Rules and Regulations.

The test shall be conducted while the oxidizer is operating at a temperature of not less than the minimum operating temperature specified in this permit. If the operating temperature during the source test is greater than the minimum operating temperature specified in the permit, the minimum operating temperature specified in this permit may be increased to reflect the operating temperature during the source test.

The operator shall comply with administrative conditions NOs. 8, 9, and 10 of Section E of this facility permit

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C305, C332, C364, C455, C460]

D90.1 The operator shall periodically monitor the pH of the scrubbing solution according to the following specifications:

The operator shall use litmus paper or a portable pH analyzer to monitor the parameter.

The operator shall monitor once every day provided any equipment served by this control system is in operation.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C2, C4, C6, C13, C159, C160, C161, C232, C233, C529]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- D90.2 The operator shall periodically monitor the pH of the scrubbing solution according to the following specifications:

The operator shall use a portable pH analyzer to monitor the parameter.

The operator shall monitor once every day provided any equipment served by this control system is in operation.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C467]

- D111.1 The operator shall comply with the tune-up requirements of Rule 1146. Records shall be maintained for the date of each tune-up, the company performing the tune-up, and the tune-up results for NOX, CO and O2.

[RULE 1146, 11-17-2000]

[Devices subject to this condition : D19]

- D135.1 The operator shall inspect, adjust, and certify the ignition or fuel injection timing of this engine a minimum of once every 3 years of operation. Inspections, adjustments, and certifications shall be performed by a qualified mechanic and performed in accordance with the engine manufacturer's specifications and procedures.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D30, D31]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D182.1 The operator shall test this equipment in accordance with the following specifications:

The test shall be conducted no later than 180 days after the initial start-up of this equipment unless otherwise approved in writing by the District.

The test shall be conducted in accordance with the standard source test protocol for boilers subject to a concentration limit to determine compliance with rule 2012. The Certification of No Exception shall be submitted with the source test report.

A written notice of the source test shall be submitted to the District (addressed to South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) at least 14 days prior to the source testing date so that an observer from the District may be present

Emissions data shall be expressed in terms of concentration (ppmv), corrected to 3 percent, dry basis

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

Two complete copies of the source test reports shall be submitted to the District (addressed to South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) within 45 days after the source testing date. The source test report shall include, but is not limited to, all testing data required by this condition

The test shall be conducted to determine the NOx emissions at the outlet.

A testing laboratory certified by the California Air Resources Board in the required test methods for criteria pollutants to be measured, and in compliance with District Rule 304 (no conflict of interest) shall conduct the test

Sampling facilities shall comply with the District guidelines for construction of sampling and testing facilities, pursuant to Rule 217

[RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D365, D457]

D322.1 The operator shall perform a weekly inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C151]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D322.2 The operator shall perform a monthly inspection of the cover to assure compliance with Rule 1122(c)(2)(A).

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D290, D291, E298, D309, D312, D313]

D322.3 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E586]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D198]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146.1 concentration limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D21, D22, D24, D314]

- D332.2 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146 concentration limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D19]

- D332.3 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO concentration limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D321, D365, D457]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E586]

E. Equipment Operation/Construction Requirements

E54.1 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C460 [OXIDIZER, RTO, 1.5 MMBTU/HR]

Requirement number 1: On days where the total VOC emissions from semiconductor manufacturing and related operations subject to District Rule 1164 at this facility are less than 5 pounds.

[RULE 1164, 1-13-1995]

[Devices subject to this condition : D157]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

E71.1 The operator shall only operate this equipment using once through water as the scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : C162]

E71.2 The operator shall only operate this equipment if the sink drain vents are exhausted to air pollution control.

[RULE 1164, 1-13-1995; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D148, D149]

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E586]

E128.1 The operator shall keep all waste solvent in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

[RULE 1164, 1-13-1995]

[Devices subject to this condition : D304]

E128.2 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

[RULE 1401, 7-10-1998]

[Devices subject to this condition : C308]

E129.1 The operator shall only dispose liquid waste from this equipment at an approved waste disposal site.

[RULE 1164, 1-13-1995]

[Devices subject to this condition : D304]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- E133.1 The operator shall maintain an interlock control system which will automatically shutdown the MOCVD Deposition Reactor (device D-307) whenever the Arsine gas concentration as measured in the exhaust stream from the carbon adsorber exceeds 0.055 ppmv.

[RULE 1401, 7-10-1998]

[Devices subject to this condition : D307, C308]

- E149.1 The operator shall replace the carbon filters at least once every time there is an accidental leak of flourine gas.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C15]

- E149.2 The operator shall replace the carbon filters at least once every time there is an accidental leak of chlorine gas or hydrazine from the gas cabinet to the carbon filter.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C14]

- E149.3 The operator shall replace the carbon filters at least once every time there has been a discharge of fluorine/helium gas from the gas cabinet to the carbon filter.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C16]

- E149.4 The operator shall replace the the carbon filter at least once every 932 cycles.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D577, D579]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

E158.1 The operator shall maintain a continuous overflow of water from the scrubber sump to prevent build up of contamination.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C2, C4, C6, C159, C160, C161, C232, C233, C467, C529]

E159.1 The operator shall maintain inspection ports which, when opened, allow the observation of the spray nozzles and the scrubbing solution being sprayed on the packing.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C2, C4, C6, C159, C160, C161, C232, C529]

E175.1 The operator shall not use this equipment unless all exhaust air passes through the following:

filter media at least 2 inches thick

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C151]

E175.2 The operator shall not use this equipment unless all exhaust air passes through the following:

HEPA filters designed with a 99.97% control efficiency

The HEPA filters used in this equipment shall be individually DOP tested with 0.3 micron particles and certified to have an efficiency of not less than 99.97%

[RULE 1401, 5-2-2003]

[Devices subject to this condition : C548, C581]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

E193.1 The operator shall operate and maintain this equipment according to the following requirements:

The combustion chamber temperature shall be maintained at a minimum of 1,500 degrees Fahrenheit whenever the equipment it serves is in operation

The operator shall operate and maintain a temperature measuring and recording system to continuously measure and record the combustion chamber temperature pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a system shall have an accuracy of within 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications

For the purpose of this condition, a deviation shall be defined as when a combustion chamber temperature of less than 1,500 degrees Fahrenheit occurs whenever the equipment it serves is in operation. The operator shall review the records of the combustion chamber temperature on a daily basis to determine if a deviation occurs or shall install an alarm system to alert the operator when a deviation occurs

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the combustion chamber temperature at or above 1,500 degrees Fahrenheit, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken

All deviations shall be reported to the AQMD pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if an accumulation of deviations exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications

The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years

[RULE 1303(a)(1)-BACT, 5-10-1996; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C305, C332, C364, C455, C460]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

E193.2 The operator shall operate and maintain this equipment according to the following requirements:

The operator shall continuously monitor the pressure relief device by installing a valve monitoring device capable of recording the amount of compounds released.

The operator shall maintain records to demonstrate compliance with the above requirement.

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D150]

E224.1 The operator shall replace the carbon in the adsorber with fresh carbon when the Arsine concentration as measured in the exhaust stream from the adsorber exceeds 0.050 ppmv, or when the temperature at the bottom of the carbon bed exceeds 50 Deg C during the oxidation process.

[RULE 1401, 7-10-1998]

[Devices subject to this condition : C308]

H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|--------------|------------------|--------------|
| Refrigerants | District Rule | 1415 |
| Refrigerants | 40CFR82, SUBPART | F |

[RULE 1415, 10-14-1994; **40CFR 82 Subpart F, 5-14-1993**]

[Devices subject to this condition : E294]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 109 |

[RULE 109, 5-2-2003]

[Devices subject to this condition : E296, E310, D337, D338, D445]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 109 |
| VOC | District Rule | 1122 |

[RULE 109, 5-2-2003; RULE 1122, 10-1-2004]

[Devices subject to this condition : E295, E298, D577, D579]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 109 |
| PM | District Rule | 481 |

[RULE 109, 5-2-2003; RULE 481, 1-11-2002]

[Devices subject to this condition : C151]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1122 |

[RULE 1122, 10-1-2004]

[Devices subject to this condition : D309, D312, D313, C554, C555, C556, C557, C558, C559, C560, C561, C563, C564, C565, C566, C567, C568, C569, C570, C575, C582, C583]

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1164 |
| VOC | District Rule | 109 |

[RULE 109, 5-2-2003; RULE 1164, 1-13-1995]

[Devices subject to this condition : D111, D120, D243, D244, D245, D255, D451, D466, D526, D527]

H23.9 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| PM | District Rule | 1470 |

[RULE 1470, 3-4-2005]

[Devices subject to this condition : D27, D30, D31, D32]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- H339.1 The operator shall determine compliance with Rule 1122(e)(1)(B) requirements by measuring the temperature at the center of the air blanket once a month if the freeboard refrigeration device is used, or measuring the temperature at the center of the superheated solvent vapor zone once a month if superheated vapor system is used. In addition to the recordkeeping requirements in Section K of this Facility Permit, the operator shall keep records of the corrective actions taken when the monitoring demonstrates non-compliance.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D290, D291, E298, D309, D312, D313]

K. Record Keeping/Reporting

- K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 30 days after the source test was conducted.

[RULE 1164, 1-13-1995; RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C305, C332, C364, C455, C460]

- K40.2 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D314, D321]

- K48.1 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number E 224- 1

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C308]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- K48.3 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1-35

Condition Number B 27- 1

Condition Number B 59- 1

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1401, 12-7-1990]

[Devices subject to this condition : D290, D291]

- K48.4 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1- 6

[RULE 109, 5-2-2003]

[Devices subject to this condition : D306]

- K48.5 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number E 54- 1

[RULE 109, 5-2-2003]

[Devices subject to this condition : D157]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- K48.7 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number B 27- 5

Condition Number D 322- 2

Condition Number H 339- 1

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1401, 12-7-1990; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D313]

- K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Weekly record of pressure drop across the filter media.

Material Safety Data Sheets for all coatings and solvents used at this facility shall be kept current and made available to District personnel upon request.

The operator shall keep adequate records for this equipment to verify daily and/or calendar monthly volatile organic compound emissions in pounds and the VOC content of each material as applied including water and exempt solvent. All records shall be prepared in a format which is acceptable to the District and shall be made available to District personnel upon request

The name of the person performing the inspection and/or maintenance of the filter media.

The date, time and results of the filter media inspection.

The date, time and description of any maintenance or repairs resulting from the filter media inspection.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C151]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E297]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

pH of scrubbing solution on a daily basis

flow rate of recirculating scrubbing solution on a daily basis

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C2, C4, C6, C13, C159, C160, C161, C232, C233, C467, C529]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log listing the date of operation, the elapsed time, in hours, and the reason for operation

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D30, D31]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The name of the person performing the inspection and/or maintenance of the filter media.

The date, time and results of the filter media inspection.

The date, time and description of any maintenance or repairs resulting from the filter media inspection.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E586]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|---|---|---|---|
| Process 1 : CONTROL EQUIPMENT | | | | | |
| SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 55-4 A/N: 474041 Permit to Construct Issued: 03/25/08 | C4 | D546 | | PM: (9) [RULE 404,2-7-1986] | C8.2, C8.9, D90.1, E158.1, E159.1, K67.3 |
| SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 78-4, WIDTH: 8FT, LENGTH: 6FT 3IN, DEPTH: 7FT, WITH A 4FT PACKING DEPTH, A 30-HP EXHAUST FAN AND THREE 2-HP RECIRCULATION PUMPS A/N: 499349 Permit to Construct Issued: 09/11/09 | C6 | D428 D429 D430 D431 D432 D433 D434 D435 D438 D501 D502 D503 D537 D595 D597 | | PM: (9) [RULE 404,2-7-1986] | C8.3, C8.9, D90.1, E158.1, E159.1, K67.3 |
| SCRUBBER, PACKED BED, HARRINGTON, HPH 66-4, WIDTH: 7FT 3IN; HEIGHT: 8FT 2IN; LENGTH: 10FT 5IN; WITH A 4FT PACKING DEPTH, A 20-HP EXHAUST FAN, AND THREE 2-HP CIRCULATION PUMPS A/N: | C232 | D349 D383 D397 D398 D406 D407 D477 D507 D508 D509 D552 D584 D596 | | PM: (9) [RULE 404,2-7-1986] | C8.1, C8.9, D90.1, E158.1, E159.1, I331.1, K67.3 |
| SCRUBBER, PACKED BED, HARRINGTON, HPH 78-4 A/N: 455307 Permit to Construct Issued: 11/16/06 | C233 | D540 | | PM: (9) [RULE 404,2-7-1986] | C8.3, C8.9, D90.1, E158.1, K67.3 |
| OXIDIZER, THERMAL, NO. 4, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N: 474064 Permit to Construct Issued: 03/25/08 | C364 | D346 D347 D350 D352 D353 D354 D355 D357 D358 D359 D361 D482 D589 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] | A72.1, D29.2, E193.1, K40.1 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--|---|--|--|
| Process 1 : CONTROL EQUIPMENT | | | | | |
| | | | | PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | |
| OXIDIZER, THERMAL, NO. 2, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N: 445656 Permit to Construct Issued: 11/16/06 | C460 | D157 D301 D481 D587 D588 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | A72.1, D29.2, E193.1, K40.1 |
| OXIDIZER, HOT BED, NO. 3, GRACE TEC SYSTEMS, MODEL NO. ENTERPRISE IIL-060, NATURAL GAS, TWO ZONES, 8 FT W. X 18 FT L. X 10 FT H., 1.5 MMBTU/HR A/N: 455305 Permit to Construct Issued: 11/09/06 | C305 | D76 D77 D78 D82 D274 D299 D333 D337 D484 D498 D571 D572 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012,5-6-2005] ; PM: (9) [RULE 404,2-7-1986] PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] | A72.1, A72.3, D29.2, E193.1, K40.1 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

| | |
|---|--|
| <p>* (1)(1A)(1B) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2)(2A)(2B) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
| <p>** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.</p> | |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 9 : BPL LAB | | | | | P13.1 |
| BENCH, TRACK DEVELOP/STRIP STATIONS #1 & 2, HEIGHT: 5FT 10IN; LENGTH: 5FT; WIDTH: 3FT 10IN A/N: 499348 Permit to Construct Issued: 09/11/09 | D438 | C6 | | | B59.20 |
| OVEN, NO. 1, LABLINE, MODEL 3490M A/N: 499348 Permit to Construct Issued: 09/11/09 | D413 | C455 | | | B59.14, C1.24 |
| OVEN, NO. 2, LABLINE, MODEL 3490M A/N: 499348 Permit to Construct Issued: 09/11/09 | D414 | C455 | | | B59.14, C1.24 |
| OVEN, YES, MODEL YES-10TA A/N: 499348 Permit to Construct Issued: 09/11/09 | D597 | C6 | | | B59.65, C1.56 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D428 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D429 | C6 | | | B59.38 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|------------|
| Process 9 : BPL LAB | | | | | P13.1 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D430 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D431 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D432 | C6 | | | B59.38 |
| PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D433 | C6 | | | B59.38 |
| PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D434 | C6 | | | B59.12 |
| PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N: 499350 Permit to Construct Issued: 09/11/09 | D435 | C6 | | | B59.12 |

* (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|------------|
| Process 9 : BPL LAB | | | | | P13.1 |
| PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 499350 Permit to Construct Issued: 09/11/09 | D501 | C6 | | | B59.38 |
| PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 499350 Permit to Construct Issued: 09/11/09 | D502 | C6 | | | B59.38 |
| PLASMA ETCHER, CLEANER, TWO CHAMBER, TECHNIX, MODEL 800-II, LENGTH 3FT 5IN; WIDTH 3FT 5IN; HEIGHT 6FT 5IN; WITH 3 VACUUM PUMPS, 2.0-HP TOTAL A/N: 499350 Permit to Construct Issued: 09/11/09 | D503 | C6 | | | B59.38 |
| PLASMA ETCHER, STS, MODEL MPX HRM, LENGTH: 6 FT; WIDTH: 2 FT 4 IN; HEIGHT: 6 FT 1.75 IN, WITH TWO VACUUM PUMPS A/N: 499350 Permit to Construct Issued: 09/11/09 | D595 | C6 | | | B59.55 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| System 1 : Photolithographic Processes | | | | | |
| BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: 455548 Permit to Construct Issued: 11/16/06 | D76 | C305 | | | |
| BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: 455548 Permit to Construct Issued: 11/16/06 | D77 | C305 | | | |
| BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: 455548 Permit to Construct Issued: 11/16/06 | D78 | C305 | | | |
| BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.4, 3 FT W. X 5 FT L. X 3 FT H., ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D154 | C455 | | | |
| BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.3, MODEL NO. SSTC 621270, 18 KVA ELECTRICALLY HEATED, 6 FT 2 IN W. X 3 FT L. X 5 FT 10 IN H, WITH ONE SPINNER A/N: 455548 Permit to Construct Issued: 11/16/06 | D274 | C305 | | | |

- * (1)(1A)(1B) Denotes RECLAIM emission factor (2)(2A)(2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|--------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.1, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: 455548 Permit to Construct Issued: 11/16/06 | D299 | C305 | | | |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.2, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: 455548 Permit to Construct Issued: 11/16/06 | D300 | C161 | | | B59.4 |
| BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.7, MODEL NO. EQP222SR, 16.2 KVA ELECTRICALLY HEATED, 4 FT 6 IN W. X 4 FT L. X 5 FT 6 IN H. A/N: 455548 Permit to Construct Issued: 11/16/06 | D333 | C305 | | | B27.4, C1.15 |
| BENCH, PHOTORESIST STRIPPER, SEMITOOL NO. 8, MODEL NO. SSTC401270, 3 FT 3 IN W. X 5 FT 5 IN L. X 5 FT 7 IN H., 7.2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D335 | C455 | | | B27.4, C1.17 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|---------------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.4, MODEL SCORPIO 839, 4 FT 4 IN W. X 4 FT 3 IN L. X 5 FT 11 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: 455548 Permit to Construct Issued: 11/16/06 | D337 | C305 | | | B27.5, C1.18, H23.2 |
| BENCH, PHOTORESIST STRIPPER, SEMITool NO.6, MODEL NO. EQ22PR, 9.36 KVA ELECTRICALLY HEATED, 4 FT W. X 4 FT 8 IN L. X 5 FT 5 IN H. A/N: 455548 Permit to Construct Issued: 11/16/06 | D520 | C161 | | | B59.4, B59.43 |
| BENCH, PHOTORESIST DEVELOPER TRACK, SILICON VALLEY GROUP, MODEL NO. SVG-8632 CTD, 5 FT L. X 3 FT W. X 2 FT 8 IN H. A/N: 455548 Permit to Construct Issued: 11/16/06 | D521 | C161 | | | B59.4, B59.43 |
| OVEN, PHOTORESIST BAKE, LABLINE MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D79 | C455 | | | |
| OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D80 | C455 | | | |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D81 | C455 | | | |
| OVEN, TRW NO. 1, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D276 | C455 | | | |
| OVEN, TRW NO. 2, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D277 | C455 | | | |
| OVEN, TRW NO. 3, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D278 | C455 | | | |
| OVEN, TRW NO. 7, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D279 | C455 | | | |
| OVEN, VAPOR PRIME, YEILD ENGINEERING, MODEL NO. YES-6, 1 FT 9 IN W. X 2 FT 11 IN L. X 1 FT 9 IN H., ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06 | D82 | C305 | | | |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|---------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N: 455548 Permit to Construct Issued: 11/16/06 | D571 | C305 | | | B59.53, C1.51 |
| BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N: 455548 Permit to Construct Issued: 11/16/06 | D572 | C305 | | | B59.53, C1.51 |
| OVEN, VAPOR PRIME, YIELD ENGINEERING SERVICES, MODEL NO. 310TA A/N: 455548 Permit to Construct Issued: 11/16/06 | D573 | C6 | | | B59.53 |
| BENCH, MANUAL PHOTORESIST COATER A/N: 455548 Permit to Construct Issued: 11/16/06 | D484 | C305 | | | B59.60, C1.53 |
| BENCH, DEVELOPER, TRACK, C&D A/N: 455548 Permit to Construct Issued: 11/16/06 | D537 | C6 | | | B59.4, B59.55 |
| System 4 : Solvent Cleaning | | | | | |
| BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N: 455303 Permit to Construct Issued: 06/23/06 | D474 | C455 | | | B59.47, C1.44 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 10 : D1 EAST LAB | | | | | P13.1 |
| BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N: 455303 Permit to Construct Issued: 06/23/06 | D476 | C455 | | | B59.47, C1.44 |
| BENCH, PHOTORESIST DEVELOPER, PHOTORESIST DEVELOPER, CHLOROBENZENE SINK, WAFER PROCESS SYSTEMS, MODEL NO. WPS-, 400-FA-SS, 3 FT 4 IN W. X 3 FT 10 IN L. X 6 FT 4 IN H., HEATED 5.4 KVA A/N: 455303 Permit to Construct Issued: 06/23/06 | D498 | C305 | | | B59.34, C1.47 |
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| System 1 : Photolithographic Processes | | | | | |
| BENCH, PHOTORESIST COATER/DEVELOPER, NO.3, MODEL SCORPIO 841, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND ONE BAKING OVEN A/N: 455302 Permit to Construct Issued: 11/16/06 | D301 | C460 | | | |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|---------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST COATER NO. 1, 82 IN L. X 36 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N: 455302 Permit to Construct Issued: 11/16/06 | D346 | C364 | | | B59.50, C1.42 |
| BENCH, PHOTORESIST COATER NO. 2, 82 IN L. X 52 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N: 455302 Permit to Construct Issued: 11/16/06 | D347 | C364 | | | B59.50, C1.42 |
| BENCH, TRACK DEVELOP STATION NO. 1, POTASSIUM HYDROXIDE A/N: 455302 Permit to Construct Issued: 11/16/06 | D397 | C232 | | | B59.9 |
| BENCH, TRACK DEVELOP STATION NO. 2, POTASSIUM HYDROXIDE A/N: 455302 Permit to Construct Issued: 11/16/06 | D398 | C232 | | | B59.9 |
| BENCH, DEVELOPER, C&D SEMICONDUCTOR, MODEL 8800, WIDTH: 3FT 11 IN, HEIGHT: 5FT 10 IN, LENGTH: 4FT 11 IN A/N: 455302 Permit to Construct Issued: 11/16/06 | D477 | C232 | | | B59.4, B59.36 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|-------------------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800, WIDTH: 2 FT 11 IN, LENGTH: 8 FT, HEIGHT:3 FT 11 IN A/N: 455302 Permit to Construct Issued: 11/16/06 | D481 | C460 | | | B59.49, C1.37, C1.42 |
| OVEN, NO. 2, VAPOR PRIME, 21.625 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED, 2.2 KVA A/N: 455302 Permit to Construct Issued: 11/16/06 | D349 | C232 | | | B59.52, C1.46 |
| OVEN, NO. 1, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06 | D350 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 3, PHOTORESIST BAKE, 21.6 IN L. 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06 | D352 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 4, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06 | D353 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 5, PHOTORESIST BAKE, 21.6 IN L. X 24.25 W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06 | D354 | C364 | | | B59.5, C1.42 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|-------------------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| OVEN, NO. 6, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06 | D355 | C364 | | | B59.5, C1.42 |
| OVEN, NO. 1, VAPOR PRIME, 19.5 IN L. X 23.75 IN W. X 27.5 IN H., ELECTRICALLY HEATED, 2.2 KVA A/N: 455302 Permit to Construct Issued: 11/16/06 | D348 | C233 | | | B59.4, B59.57, C1.42 |
| OVEN, LABLINE,, LENGTH: 21.6 IN, WIDTH: 24.25 IN, HEIGHT: 35 IN, ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06 | D587 | C460 | | | B59.62, C1.42 |
| OVEN, LABLINE,, LENGTH: 21.6 IN, WIDTH: 24.25 IN, HEIGHT: 35 IN, ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06 | D588 | C460 | | | B59.62, C1.42 |
| OVEN, BARNSTEAD, LABLINE, MODEL 3497M-3 A/N: 455302 Permit to Construct Issued: 11/16/06 | D589 | C364 | | | B59.62, C1.42 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, ETCH NO. 1, 65- KVA A/N: | D374 | C160 | | | B59.8 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, ETCH NO. 2, 65-KVA A/N: | D375 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 1, MATRIX, 6.0-KVA A/N: | D378 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 5, MATRIX, 6.0-KVA A/N: | D382 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 6, MATRIX, 6.0-KVA A/N: | D383 | C232 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 9, MATRIX, 6.0-KVA A/N: | D386 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 11, MATRIX, 6.0-KVA A/N: | D388 | C160 | | | B59.8 |
| PLASMA ETCHER, DEPOSITION NO. 1, PLASMA THERM INC. 65-KVA A/N: | D390 | C160 | | | B59.8 |
| PLASMA ETCHER, DEPOSITION NO. 2, PLASMA THERM INC. 65-KVA A/N: | D391 | C160 | | | B59.8 |
| PLASMA ETCHER, CLEAN NO. 1, MATRIX, 21.4-KVA A/N: | D403 | C160 | | | B59.52 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, CLEAN NO. 2, MATRIX, 21.4-KVA A/N: | D404 | C160 | | | B59.52 |
| PLASMA ETCHER, CLEAN NO. 4, MATRIX, 21.4-KVA A/N: | D406 | C232 | | | B59.52 |
| PLASMA ETCHER, MATRIX, MODEL EHP500,, WIDTH: 4FT, LENGTH: 3FT, HEIGHT: 6FT, WITH THREE VACUUM PUMPS A/N: | D450 | C233 | | | B59.13 |
| PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D507 | C232 | | | B59.52 |
| PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D508 | C232 | | | B59.52 |
| PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65- KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D509 | C232 | | | B59.52 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, DESCUMMER, BRANSON/IPC, MODEL REACTOR CENTER PM 1813, DIMENSIONS: HEIGHT: 3FT; LENGTH: 3FT; WIDTH: 3FT A/N: | D528 | C160 | | | B27.7 |
| FURNACE, PHOTORESIST COATER/DEVELOPER, THERMCO A/N: | D183 | C160 | | | |
| ION IMPLANTER, ION BEAM MILL VACUUM PUMP A/N: | D182 | C233 | | | |
| EVAPORATOR, CHA MK50 A/N: | D191 | | | | |
| DEPOSITION REACTOR, SPUTTERING NO. 1, 21.4-KVA A/N: | D407 | C232 | | | B59.52 |
| PROCESS TANK, PASS-THRU ACID UNIT A/N: | D189 | C160 | | | |
| DEPOSITION REACTOR, VAPOR PRIME, Y.E.S., LENGTH: 19.5IN; WIDTH: 23.75IN; HEIGHT: 27.5IN;, ELECTRICALLY HEATED A/N: | D552 | C232 | | | B59.52, C1.46 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|----------------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: | D584 | C232 | | | B59.58 |
| DEPOSITION REACTOR, PECVD DIELECTRIC, TRIKON TECHNOLOGIES, DELTA 201,65-KVA., LENGTH: 5FT; WIDTH: 3FT 4IN; HEIGHT: 6FT 1IN, WITH 3 VACUUM PUMPS, 4-HP TOTAL A/N: | D585 | | | | B59.59 |
| PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: | D540 | C233 | | | B59.55 |
| PLASMA ETCHER, TEGAL, MODEL 110, LENGTH: 2 FT 9IN; WIDTH: 6 FT 4 IN; HEIGHT: 6 FT 10IN, WITH TWO VACUUM PUMPS A/N: | D596 | C232 | | | B59.66, C1.55 |
| System 4 : Solvent Cleaning | | | | | |
| BENCH, COATER/DEVELOPER, DEXON, 2 KVA ELECTRICALLY HEATED, 2 FT 6 IN W. X 6 FT L. X 3 FT H. A/N: 474053 Permit to Construct Issued: 03/25/08 | D157 | C460 | | | B59.16, E54.1, K48.5 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|--|--------|--------------|---|---------------------------------|---------------|
| Process 11 : D1 WEST LAB | | | | | P13.1 |
| BENCH, SOLVENT CLEANING STATION NO. I, ONE SINK, 3 FT W. X 4 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08 | D357 | C364 | | | B59.19, C1.41 |
| BENCH, SOLVENT CLEANING STATION NO. A, THREE SINKS, 3 FT W. X 5 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08 | D358 | C364 | | | B59.47, C1.41 |
| BENCH, SOLVENT CLEANING STATION NO. B, SIX SINKS, 3 FT W. X 4 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08 | D359 | C364 | | | B59.19, C1.41 |
| BENCH, SOLVENT CLEANING STATION NO. D, THREE SINKS, 3 FT W. X 6 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08 | D361 | C364 | | | B59.47, C1.41 |
| BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEMS, 2-KVA ELECTRICALLY HEATED A/N: 474053 Permit to Construct Issued: 03/25/08 | D482 | C364 | | | B59.47, C1.41 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|--------|--------------|---|---------------------------------|---------------|
| Process 13 : 3D LAB | | | | | P13.1 |
| System 2 : Integrated Circuit Fabrication | | | | | |
| PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: | D540 | C233 | | | B59.55 |
| Process 14 : SURFACE PREPARATION | | | | | |
| System 1 : Etching Line | | | | | |
| BENCH, WET STATION, HBT, NO. 2, 6FT, UNHEATED A/N: 474044 Permit to Construct Issued: 03/25/08 | D546 | C4 | | | B59.4, B59.63 |

* (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
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| C6 | 1 | 1 | 0 |
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| D77 | 7 | 10 | 1 |
| D78 | 7 | 10 | 1 |
| D79 | 9 | 10 | 1 |
| D80 | 9 | 10 | 1 |
| D81 | 10 | 10 | 1 |
| D82 | 10 | 10 | 1 |
| D154 | 7 | 10 | 1 |
| D157 | 19 | 11 | 4 |
| D182 | 18 | 11 | 2 |
| D183 | 18 | 11 | 2 |
| D189 | 18 | 11 | 2 |
| D191 | 18 | 11 | 2 |
| C232 | 1 | 1 | 0 |
| C233 | 1 | 1 | 0 |
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| D277 | 10 | 10 | 1 |
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| D279 | 10 | 10 | 1 |
| D299 | 8 | 10 | 1 |
| D300 | 8 | 10 | 1 |
| D301 | 12 | 11 | 1 |
| C305 | 2 | 1 | 0 |
| D333 | 8 | 10 | 1 |
| D335 | 8 | 10 | 1 |
| D337 | 9 | 10 | 1 |
| D346 | 13 | 11 | 1 |
| D347 | 13 | 11 | 1 |
| D348 | 15 | 11 | 1 |
| D349 | 14 | 11 | 1 |
| D350 | 14 | 11 | 1 |
| D352 | 14 | 11 | 1 |
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FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
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| D355 | 15 | 11 | 1 |
| D357 | 20 | 11 | 4 |
| D358 | 20 | 11 | 4 |
| D359 | 20 | 11 | 4 |
| D361 | 20 | 11 | 4 |
| C364 | 1 | 1 | 0 |
| D374 | 15 | 11 | 2 |
| D375 | 16 | 11 | 2 |
| D378 | 16 | 11 | 2 |
| D382 | 16 | 11 | 2 |
| D383 | 16 | 11 | 2 |
| D386 | 16 | 11 | 2 |
| D388 | 16 | 11 | 2 |
| D390 | 16 | 11 | 2 |
| D391 | 16 | 11 | 2 |
| D397 | 13 | 11 | 1 |
| D398 | 13 | 11 | 1 |
| D403 | 16 | 11 | 2 |
| D404 | 17 | 11 | 2 |
| D406 | 17 | 11 | 2 |
| D407 | 18 | 11 | 2 |
| D411 | 3 | 9 | 1 |
| D412 | 3 | 9 | 1 |
| D413 | 4 | 9 | 1 |
| D414 | 4 | 9 | 1 |
| D428 | 4 | 9 | 2 |
| D429 | 4 | 9 | 2 |
| D430 | 5 | 9 | 2 |
| D431 | 5 | 9 | 2 |
| D432 | 5 | 9 | 2 |
| D433 | 5 | 9 | 2 |
| D434 | 5 | 9 | 2 |
| D435 | 5 | 9 | 2 |
| D438 | 4 | 9 | 1 |
| D450 | 17 | 11 | 2 |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section H Page No. | Process | System |
| C460 | 2 | 1 | 0 |
| D474 | 11 | 10 | 4 |
| D476 | 12 | 10 | 4 |
| D477 | 13 | 11 | 1 |
| D481 | 14 | 11 | 1 |
| D482 | 20 | 11 | 4 |
| D484 | 11 | 10 | 1 |
| D498 | 12 | 10 | 4 |
| D501 | 6 | 9 | 2 |
| D502 | 6 | 9 | 2 |
| D503 | 6 | 9 | 2 |
| D507 | 17 | 11 | 2 |
| D508 | 17 | 11 | 2 |
| D509 | 17 | 11 | 2 |
| D520 | 9 | 10 | 1 |
| D521 | 9 | 10 | 1 |
| D528 | 18 | 11 | 2 |
| D537 | 11 | 10 | 1 |
| D540 | 19 | 11 | 2 |
| D540 | 21 | 13 | 2 |
| D546 | 21 | 14 | 1 |
| D552 | 18 | 11 | 2 |
| D571 | 11 | 10 | 1 |
| D572 | 11 | 10 | 1 |
| D573 | 11 | 10 | 1 |
| D584 | 19 | 11 | 2 |
| D585 | 19 | 11 | 2 |
| D587 | 15 | 11 | 1 |
| D588 | 15 | 11 | 1 |
| D589 | 15 | 11 | 1 |
| D593 | 3 | 2 | 0 |
| D595 | 6 | 9 | 2 |
| D596 | 19 | 11 | 2 |
| D597 | 4 | 9 | 1 |

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|-------------|--|
| VOC | Less than or equal to 833 LBS IN ANY ONE MONTH |

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

- (1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).
- (2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules.
- (3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.
- (4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all equipment and operations that are subject to Rule 442.

[RULE 442, 12-15-2000]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

F2.2 The operator shall limit emissions from this facility as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|-------------|---|
| VOC | Less than or equal to 22 LBS IN ANY ONE MONTH |

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

- (1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).
- (2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules.
- (3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.
- (4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all vapor degreasers operating under the Rule 1122 exemption pursuant to Rule 1122(k)(2).

[RULE 1122, 10-1-2004]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

F2.3 The operator shall limit emissions from this facility as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|--|--|
| Single Volatile Hazardous Air Pollutant (VHAP) | Less than 10 TONS IN ANY 12-MONTH PERIOD |
| Combination of Volatile Hazardous Air Pollutants (VHAPs) | Less than 25 TONS IN ANY 12-MONTH PERIOD |

To ensure compliance with the 12-month Volatile Hazardous Air Pollutant (VHAP) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

- (1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).
- (2) Within 14 calendar days after the end of each month, the operator shall total and record VHAP emissions for the month and for the previous 12 month period from all equipment and operations covered by the 12-month emission limit(s). The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules.
- (3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VHAP-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.
- (4) The operator shall retain all purchase invoices for all VHAP-containing material used or stored at the facility, and all waste manifests for all waste VHAP-containing material removed from the facility, for five years.

[40CFR 63 Subpart BBBBB, 5-22-2003]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[**RULE 401, 3-2-1984**; RULE 401, 11-9-2001]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

[**RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

District Rule 1420

[RULE 1420, 9-11-1992]

PROCESS CONDITIONS

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1164 |
| VOC | District Rule | 109 |

[RULE 109, 5-2-2003; RULE 1164, 1-13-1995]

[Processes subject to this condition : 8, 9, 10, 11, 12, 13]

P13.2 All devices under this process are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1122 |
| VOC | District Rule | 109 |

[RULE 109, 5-2-2003; RULE 1122, 10-1-2004]

[Processes subject to this condition : 4]

SYSTEM CONDITIONS

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| HAPs | District Rule | 1426 |

[RULE 1426, 5-2-2003]

[Systems subject to this condition : Process 14, System 2]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

DEVICE CONDITIONS

A. Emission Limits

- A72.1 The operator shall maintain this equipment to achieve a minimum destruction efficiency of 95 percent for ROG during the normal operation of the equipment it vents.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : C305, C364, C460]

- A72.3 The operator shall maintain this equipment to achieve a minimum overall control efficiency of 90 percent for ROG during the normal operation of the equipment it vents.

[RULE 1164, 1-13-1995]

[Devices subject to this condition : C305]

B. Material/Fuel Type Limits

- B27.4 The operator shall not use materials containing any carcinogenic compounds identified in the SCAQMD Rule 1401, as amended 07-dec-1990.

For the purposes of this condition, carcinogenic compounds are those in Table I of the above mentioned rule, with an effective date of 07-dec-1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D333, D335]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- B27.5 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 12-mar-1999.

For the purposes of this condition, toxic air contaminants (TACs) are those in Table I of the above mentioned rule, with an effective date of 12-mar-1999 or earlier.

[RULE 1401, 3-12-1999]

[Devices subject to this condition : D337]

- B27.7 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 05-02-2003.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D528]

- B59.4 The operator shall not use the following material(s) in this device :

Materials containing VOC.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D300, D348, D477, D520, D521, D537, D546]

- B59.5 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier except nitric acid and hydrofluoric acid

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D350, D352, D353, D354, D355]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

B59.8 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except ammonia

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D374, D375, D378, D382, D383, D386, D388, D390, D391]

B59.9 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except hydrochloric acid

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D397, D398]

B59.12 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D434, D435]

B59.13 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 8/18/00 or earlier

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D450]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

B59.14 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of May 2, 2003 or earlier except methanol, isopropyl alcohol, and chlorobenzene

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D411, D412, D413, D414]

B59.16 The operator shall not use the following material(s) in this device :

Materials containing any carcinogenic air contaminants identified in Rule 1401, Table 1 with an effective date of December 7, 1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D157]

B59.19 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table one of rule 1401 with a listing date of 8/13/99 or earlier except isopropyl alcohol, phenol, methanol and naphthalene

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D357, D359]

B59.20 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hexavalent chrome, hydrofluoric acid, nickel sulfamate, nitric acid and phosphoric acid.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D438]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

B59.34 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except chlorobenzene, isopropyl alcohol, and methanol.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D498]

B59.36 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrochloric acid and hydrofluoric acid

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D477]

B59.38 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D428, D429, D430, D431, D432, D433, D501, D502, D503]

B59.43 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D520, D521]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

B59.47 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except isopropyl alcohol, methanol, phenol and naphthalene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D358, D361, D474, D476, D482]

B59.49 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except cresol, isopropyl alcohol, methanol, xylene, phenol and chlorobenzene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

B59.50 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of 5/02/03 or earlier except nitric acid, hydrofluoric acid, cresol, xylene, isopropyl alcohol, methanol, and chlorobenzene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D346, D347]

B59.52 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrofluoric acid, hydrochloric acid, ammonia, chlorine or isopropyl alcohol

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D349, D403, D404, D406, D407, D507, D508, D509, D552]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

B59.53 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol, isopropyl alcohol and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D571, D572, D573]

B59.55 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D537, D540, D595]

B59.57 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except nitric acid, hydrofluoric acid and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D348]

B59.58 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/4/05 or earlier except hydrofluoric acid or chlorine

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D584]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

B59.59 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D585]

B59.60 The operator shall not use the following material(s) in this device :

Toxic Air Contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol, chlorobenzene and formaldehyde

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D484]

B59.62 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol, and cellosolve acetate

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D587, D588, D589]

B59.63 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except nitric acid and hydrofluoric acid.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D546]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

B59.65 The operator shall not use the following material(s) in this device :

Toxic air contaminants (TACs) in table 1 of Rule 1401 with a listing date of 3/07/08 or earlier except ammonia.

Materials containing Volatile Organic Compounds (VOCs)

[RULE 1164, 1-13-1995; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-7-2008]

[Devices subject to this condition : D597]

B59.66 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/07/08 or earlier.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : D596]

C. Throughput or Operating Parameter Limits

C1.15 The operator shall limit the material processed to no more than 180 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D333]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

C1.17 The operator shall limit the material processed to no more than 93 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D335]

C1.18 The operator shall limit the material processed to no more than 430 lb(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D337]

C1.24 The operator shall limit the material processed to no more than 42 gallon(s) per month.

This limit shall be based on the total combined limit for equipment D411 - D414.

For the purpose of this condition, material processed shall be defined as material with a VOC content of 9.2 lbs/gal or less.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D411, D412, D413, D414]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

C1.37 The operator shall limit the material processed to no more than 80 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as photoresist coatings (Microposit 1822 / 1813).

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

C1.41 The operator shall limit the material processed to no more than 1836 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D357, D358, D359, D361 and D482.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D357, D358, D359, D361, D482]

C1.42 The operator shall limit the material processed to no more than 649 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D346 through D348, D350, D352 through D355 and D481.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D346, D347, D348, D350, D352, D353, D354, D355, D481, D587, D588, D589]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

C1.44 The operator shall limit the material processed to no more than 660 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D474 and D476.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D474, D476]

C1.46 The operator shall limit the material processed to no more than 2.0 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC. The limit shall be based on the total combined limit for equipment D349 and D552.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D349, D552]

C1.47 The operator shall limit the material processed to no more than 325 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as solvents containing VOC.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D498]

C1.51 The operator shall limit the material processed to no more than 282 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D571, D572]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- C1.53 The operator shall limit the material processed to no more than 2 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D484]

- C1.55 The operator shall limit the material processed to no more than 240 in any one month.

For the purpose of this condition, material processed shall be defined as number of wafers processed in this equipment..

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D596]

- C1.56 The operator shall limit the throughput to no more than 480 batch(es) in any one month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D597]

- C8.1 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 100 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C232]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- C8.2 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 60 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C4]

- C8.3 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 150 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C6, C233]

- C8.9 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 8 of the pH scale.

To comply with this condition, the operator shall monitor and record the pH as specified in condition number 90-1.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C4, C6, C232, C233]

D. Monitoring/Testing Requirements

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

D28.8 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted within the first 12 months after the issuance of this permit and once every 5-year period.

The test shall be conducted to demonstrate compliance with the source testing requirements of Rule 2012 for a Process Unit opting to comply with a NOx concentration limit.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D593]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

| Pollutant(s) to be tested | Required Test Method(s) | Averaging Time | Test Location |
|---------------------------|--------------------------|----------------------------------|-------------------------------|
| VOC | Approved District method | District-approved averaging time | Simultaneous inlet and outlet |

The test shall be conducted at least once during the life of the permit but no later than July 9, 2010 unless otherwise approved in writing by the District.

The test shall be conducted to determine the VOC emissions using an approved District method to determine compliance with all applicable permit condition(s), Rules and Regulations.

The test shall be conducted while the oxidizer is operating at a temperature of not less than the minimum operating temperature specified in this permit. If the operating temperature during the source test is greater than the minimum operating temperature specified in the permit, the minimum operating temperature specified in this permit may be increased to reflect the operating temperature during the source test.

The operator shall comply with administrative conditions NOs. 8, 9, and 10 of Section E of this facility permit

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C305, C364, C460]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- D90.1 The operator shall periodically monitor the pH of the scrubbing solution according to the following specifications:

The operator shall use litmus paper or a portable pH analyzer to monitor the parameter.

The operator shall monitor once every day provided any equipment served by this control system is in operation.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C4, C6, C232, C233]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

D182.3 The operator shall test this equipment in accordance with the following specifications:

The test shall be conducted within 180 days after the initial start-up unless otherwise approved in writing by the Executive Officer..

The source tests shall be performed to verify compliance with the NOx and CO emission limits specified by this permit

The tests shall be conducted while the burner is firing at maximum, minimum, and average firing rates

Written notice of the source tests shall be submitted to the District (addressed to South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) at least 14 days prior to testing so that an observer can be present

Two complete copies of the source test reports shall be submitted to the District (South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) within 45 days after the test. The report shall include, but may not be limited to emissions rates in pounds per hour and concentrations in ppmv at the outlet of the boiler, measured on a dry basis at 3% oxygen. The following operating data shall also be included for each firing rate:

A. The exhaust flow rates, in actual cubic feet per minute (ACFM)

B. The firing rates, in BTU per hour

C. The exhaust temperature, in degrees F

D. The oxygen content of the the exhaust gases, in percent

E. The fuel flow rate

A testing laboratory certified by the California Air Resources Board in the required test methods for criteria pollutant to be measured, and in compliance with District Rule 304 (non conflict of interest) shall conduct the test

Sampling facilities shall comply with the District Guidelines for Construction of Sampling and Testing Facilities, pursuant to Rule 217

[RULE 1146.1, 5-13-1994; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012, 5-6-2005]

[Devices subject to this condition : D593]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- D332.3 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO concentration limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D593]

E. Equipment Operation/Construction Requirements

- E54.1 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C460 [OXIDIZER, RTO, 1.5 MMBTU/HR]

Requirement number 1: On days where the total VOC emissions from semiconductor manufacturing and related operations subject to District Rule 1164 at this facility are less than 5 pounds.

[RULE 1164, 1-13-1995]

[Devices subject to this condition : D157]

- E158.1 The operator shall maintain a continuous overflow of water from the scrubber sump to prevent build up of contamination.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C4, C6, C232, C233]

- E159.1 The operator shall maintain inspection ports which, when opened, allow the observation of the spray nozzles and the scrubbing solution being sprayed on the packing.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C4, C6, C232]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

E193.1 The operator shall operate and maintain this equipment according to the following requirements:

The combustion chamber temperature shall be maintained at a minimum of 1,500 degrees Fahrenheit whenever the equipment it serves is in operation

The operator shall operate and maintain a temperature measuring and recording system to continuously measure and record the combustion chamber temperature pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a system shall have an accuracy of within 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications

For the purpose of this condition, a deviation shall be defined as when a combustion chamber temperature of less than 1,500 degrees Fahrenheit occurs whenever the equipment it serves is in operation. The operator shall review the records of the combustion chamber temperature on a daily basis to determine if a deviation occurs or shall install an alarm system to alert the operator when a deviation occurs

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the combustion chamber temperature at or above 1,500 degrees Fahrenheit, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken

All deviations shall be reported to the AQMD pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if an accumulation of deviations exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications

The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years

[RULE 1303(a)(1)-BACT, 5-10-1996; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C305, C364, C460]

H. Applicable Rules

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 109 |

[RULE 109, 5-2-2003]

[Devices subject to this condition : D337]

I. Administrative

I331.1 The conditions and requirements for this device in Section H shall take effect, and shall supersede those in Section D, when the modifications authorized in Section H are completed. The operator shall notify the AQMD when the modifications are completed.

[RULE 202, 5-7-1976]

[Devices subject to this condition : C232]

K. Record Keeping/Reporting

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 30 days after the source test was conducted.

[RULE 1164, 1-13-1995; RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C305, C364, C460]

FACILITY PERMIT TO OPERATE NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

K40.2 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D593]

K48.5 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number E 54- 1

[RULE 109, 5-2-2003]

[Devices subject to this condition : D157]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

pH of scrubbing solution on a daily basis

flow rate of recirculating scrubbing solution on a daily basis

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C4, C6, C232, C233]